PIONEER®
The Art of Entertainment

Service Manual

ORDER NO.
ARP2631

STEREO RECEIVER

SX-P830
HEWZI,SD,SL

SX-P730
HEWZI,SD,SL

● Refer to the service manual ARP2630 for SX－P830 and SX－P730.

SX－P830 AND SX－P730 HAVE THE FOLLOWING :

Type	Model		Power Requirement	Remarks
	SX－P830	SX－P730		
HEWZI	○	○	AC220V－230V, 240V (Switchable)*	
SD	○	○	AC110V, 120－127V, 220V, 240V (Switchable)	
SL	○	○	AC110V, 120V, 220V, 240V (Switchable)	

* Change the connection of the power transformer's primary wiring.

- This manual is applicable to the following : SX－P830/HEWZI, SD and SL ; SX－P730/HEWZI, SD and SL.
- These products are systems components.
  Each of these products does not function properly when independent ; to avoid malfunctions, be sure to connect it to the prescribed system component (s), otherwise damage may result.
  These product's accessories etc. are packed with their related component (s).

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.
PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2 Canada
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911
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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

1.1 FOR SX-P830/HEWZI, SD AND SL

SX-P830/HEWZI, SD, SL and SX-P830/HE have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		SX-P830/ HE	SX-P830/ HEWZI	SX-P830/ SD	SX-P830/ SL	
	TUNER assembly	AWE1261	AWE1225	AWE1227	AWE1227	
◉	MAIN assembly	AWZ4348	AWZ4349	AWZ4351	AWZ4351	
◉	SUB POWER assembly	AWZ4362	AWZ4363	AWZ4365	AWZ4365	
NSP	MIC assembly	....	....	AWZ4374	AWZ4374	
NSP	HEAD P. assembly	AWZ4375	AWZ4376	AWZ4375	AWZ4375	
◉	VR assembly	AWZ4991	AWZ4372	AWZ4991	AWZ4991	
◉	DISPLAY assembly	AWZ4326	AWZ4326	AWZ4328	AWZ4328	*1
◉	FRONT AMP assembly	AWZ4334	AWZ4335	AWZ4336	AWZ4336	
⚠	S1 Voltage selector (AC110V/120−127V/220V/240V for SD type) (AC110V/120V/220V/240V for SL type)	....	....	AKX-507	AKX-507	
⚠	T1 Power transformer	ATS1374	ATS1374	ATS1376	ATS1376	
⚠	AC power cord	ADG1049	ADG1049	ADG1051	ADG1131	
⚠	FU51 Fuse (T1.25A/250V)	AEK-509	AEK-509	....	....	
⚠	FU51 Fuse (T4A/250V)	....	....	AEK-514	AEK-514	
⚠	FU52, FU53 Fuse (T1.6A/250V)	....	....	AEK-510	AEK-510	
	Front panel	AMB2042	AMB2042	AMB2043	AMB2043	
	Knob (MIC LEVEL)	....	....	AAB1253	AAB1253	
	Hinge button (PLS)	AAD2294	AAD2294	AAD2294	....	
NSP	Rear panel	ANC1939	ANC1940	ANC1941	ANC2049	
NSP	Barrier	....	....	AMR2365	AMR2365	
	Screw	....	....	ABA1095	ABA1095	(For MIC assembly)
	Front pad	AHA1567	AHA1567	AHA1506	AHA1506	
	Rear pad	AHA1568	AHA1568	AHA1488	AHA1488	
	Packing case	AHD2363	AHD2363	....	....	
	Operating instructions (English, French)	ARE1252	....	....	....	
	Operating instructions (Dutch, Swedish, Spanish, Portuguese)	ARE1254	....	....	....	
	Operating instructions (German, Italian)	ARC1379	ARC1379	....	....	

***1** : *Although AWZ4328 and AWZ4326 are different in part number, they have the same service parts.*

TUNER ASSEMBLY

AWE1225, AWE1227 and AWE1261 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWE1261	AWE1225	AWE1227	
	L901, L903, L905, L908	LAU2R2K	LAU2R2M	LAU2R2M	
	L904	LAU010K	LAU010M	LAU010M	
	L906	....	LAU330K	....	
	TC901	....	ACM−018	....	
	C908	....	CKDYF223Z50	....	
	C909	....	CKDYF103Z50	....	
	C915	CKDYF223Z50	....	CKDYF223Z50	
	C919	CKDYF223Z50	CKDYF473Z50	CKDYF223Z50	
	C922	CKDYF223Z50	CKPUYF223Z25	CKDYF223Z50	
	C952, C953	CKDYB122K50	CKDYB102K50	CKDYB122K50	
	C961, C962	CKDYB272K50	CKDYB392K50	CKDYB562K50	
	C964	CKPUYB101K50	CKPUYB101K50	....	
	C965	CKPUYB102K50	CKPUYB102K50	....	
	C968	CCDSL101J50	CCDCH101J50	CCDSL101J50	
	C969	....	CCDCH270J50	....	
	R920	RD1/8PM103J	RD1/8PM472J	RD1/8PM103J	
	R922	....	RD1/8PM680J	....	
	R924	RD1/8PM331J	RD1/8PM561J	RD1/8PM331J	
	R925	....	RD1/8PM221J	....	
	R943	RD1/8PM433J	RD1/8PM473J	RD1/8PM433J	
	R955	RD1/8PM152J	RD1/8PM122J	RD1/8PM152J	
	R959, R960	RD1/8PM392J	RD1/8PM682J	RD1/8PM392J	
	4P antenna terminal	....	....	AKA1009	
	4P antenna terminal with PAL	AKA1010	....	....	
	2P antenna terminal with PAL	....	AKA1012	....	
	2 Serial F. E. module assembly	AXQ1002	....	AXQ1002	
	4 Serial F. E. module assembly	....	AXQ1004	....	*2
	AM RF Tuning block	AXX1011	AXX1014	AXX1011	

**2 : 4 Serial F. E. module assembly has no service part.*

FRONT AMP ASSEMBLY

AWZ4335, AWZ4336 and AWZ4334 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ4334	AWZ4335	AWZ4336	
	IC201	STK4160−2G	STK4160−2G	STK4170−2G	
	C2024, C2025	....	CKPUYB101K50	....	
	C2028, C2029	....	CCCSL470J50	....	

MAIN ASSEMBLY

AWZ4349, AWZ4351 and AWZ4348 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ4348	AWZ4349	AWZ4351	
	S401 (9k/10k Step Selector)	....	....	ASH1027	
	L251, L252	ATH−133	ATH−059	ATH−133	
	L2001, L2002	....	ATH−059	....	
	C1027	CQMA104K250	CQMA473K250	CQMA104K250	
	C2005, C2006	....	CCSQCH470J50	....	
	C2007, C2008, C2011, C2012	....	CKCYB103K50	....	
	C2010	....	CKCYB122K50	....	
	C2018	....	CQMA473K250	....	
	C2019	....	CKSQYB103K50	....	
	C2020, C2021	....	CCSQCH101J50	....	
	C2022, C2023	....	CKSQYB473K50	....	
	R112	RS2LMF221J	RS2LMF221J	RS2LMF331J	
	R251, R252	RD1/4PMFL100J	RD1/4PMFL101J	RD1/4PMFL100J	
	R449	RS1/10S102J	RS1/10S102J	....	
	R916	....	....	RS1/10S563J	
	R955	....	....	RS1/10S000J	
	CN15	....	....	KPC4	

SUB POWER ASSEMBLY

AWZ4363, AWZ4365 and AWZ4362 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ4362	AWZ4363	AWZ4365	
	S51	....	....	AKX1033	
	C2026	....	CQMA473K250	....	

HEAD P. ASSEMBLY

AWZ4376 and AWZ4375 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ4375	AWZ4376	
	C2501, C2502	....	CKPUYB101K50	

VR ASSEMBLY

AWZ4372 and AWZ4991 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ4991	AWZ4372	
	C2305, C2306	....	CCSQCH101J50	
	C2311, C2312	....	CCSQCH220J50	

PCB PARTS LIST

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

$560\Omega \rightarrow 56 \times 10^1 \rightarrow 561$ .... *RD1/8PM* $\boxed{5}\ \boxed{6}\ \boxed{1}$ *J*
$47k\Omega \rightarrow 47 \times 10^3 \rightarrow 473$ .... *RD1/4PS* $\boxed{4}\ \boxed{7}\ \boxed{3}$ *J*
$0.5\Omega \rightarrow 0R5$ .... *RN2H* $\boxed{0}\ \boxed{R}\ \boxed{5}$ *K*
$1\Omega \rightarrow 010$ .... *RS1P* $\boxed{0}\ \boxed{1}\ \boxed{0}$ *K*

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

$5.62k\Omega \rightarrow 562 \times 10^1 \rightarrow 5621$ .... *RN1/4PC* $\boxed{5}\ \boxed{6}\ \boxed{2}\ \boxed{1}$ *F*

MIC ASSEMBLY (SD, SL TYPES ONLY)

Mark	No.	Description	Parts No.
	SEMICONDUCTORS		
	IC1501		NJM4558M−D
	CAPACITORS		
	C1502		CEJA010M50
	C1504, C1505		CEJA100M16
	C1503		CKSQYB471K50
	C1501		CKSQYB681K50
	C1506, C1507		CKSQYF473Z50
	RESISTORS		
	VR1501	(10k−B)	ACS1074
	R1506		RS1/10S102J
	R1503		RS1/10S103J
	R1502, R1507		RS1/10S104J
	R1501		RS1/10S222J
	R1504		RS1/10S224J
	R1505		RS1/10S681J
	OTHERS		
		MIC JACK	AKN1009

1.2 FOR SX−P730/HEWZI, SD AND SL

SX−P730/HEWZI, SD, SL and SX−P730/HE have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		SX−P730/ HE	SX−P730/ HEWZI	SX−P730/ SD	SX−P730/ SL	
	TUNER assembly	AWE1261	AWE1225	AWE1227	AWE1227	∗3
◉	MAIN assembly	AWZ4357	AWZ4358	AWZ4359	AWZ4359	
◉	SUB POWER assembly	AWZ4362	AWZ4363	AWZ4365	AWZ4365	∗3
NSP	MIC assembly	....	....	AWZ4374	AWZ4374	∗3
NSP	HEAD P. assembly	AWZ4375	AWZ4376	AWZ4375	AWZ4375	∗3
◉	VR assembly	AWZ4991	AWZ4372	AWZ4991	AWZ4991	∗3
◉	FRONT AMP assembly	AWZ4341	AWZ4342	AWZ4343	AWZ4343	∗4
⚠	S1 Voltage selector (AC110V/120−127V/220V/240V for SD type) (AC110V/120V/220V/240V for SL type)	....	....	AKX−507	AKX−507	
⚠	T1 Power transformer	ATS1438	ATS1438	ATS1439	ATS1439	
⚠	AC power cord	ADG1049	ADG1049	ADG1051	ADG1049	
⚠	FU51 Fuse (T1A/250V)	AEK−508	AEK−508	....	....	
⚠	FU51 Fuse (T2A/250V)	....	....	AEK−511	AEK−511	
⚠	FU52, FU53 Fuse (T1A/250V)	....	....	AEK−508	AEK−508	
	Front panel	AMB2044	AMB2044	AMB2045	AMB2045	
	Knob (MIC LEVEL)	....	....	AAB1253	AAB1253	
NSP	Rear panel	ANC1944	ANC1945	ANC1946	ANC2050	
NSP	Barrier	....	....	AMR2365	AMR2365	
	Screw	....	ABA1095	ABA1095	ABA1095	(For MIC assembly
	Front pad	AHA1567	AHA1567	AHA1506	AHA1506	
	Rear pad	AHA1568	AHA1568	AHA1488	AHA1488	
	Packing case	AHD2364	AHD2364	....	....	
	Operating instructions (English, French)	ARE1252	....	....	....	
	Operating instructions (Dutch, Swedish, Spanish, Portuguese)	ARE1254	....	....	....	
	Operating instructions (German, Italian)	ARC1379	ARC1379	....	....	

Note : "∗3" mark indicates assemblies of SX−P730 are the same as those of SX−P830. Refer to pages 3−5.

MAIN ASSEMBLY

AWZ4358, AWZ4359 and AWZ4357 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ4357	AWZ4358	AWZ4359	
	S401	....	....	ASH1027	
	L251, L252	ATH−133	ATH−059	ATH−133	
	L2001, L2002	....	ATH−059	....	
	C1027	CQMA104K250	CQMA473K250	CQMA104K250	
	C2005, C2006	....	CCSQCH470J50	....	
	C2007, C2008, C2011, C2012	....	CKCYB103K50	....	
	C2018	....	CQMA473K250	....	
	C2019	....	CKSQYB103K50	....	
	C2020, C2021	....	CCSQCH101J50	....	
	C2022, C2023	....	CKSQYB473K50	....	
	R251, R252	RD1/4PMFL100J	RD1/4PMFL101J	RD1/4PMFL100J	
	R449	RS1/10S102J	RS1/10S102J	....	
	R916	....	....	RS1/10S563J	
	R955	....	....	RS1/10S000J	
	CN15	....	....	KPC4	

FRONT AMP ASSEMBLY

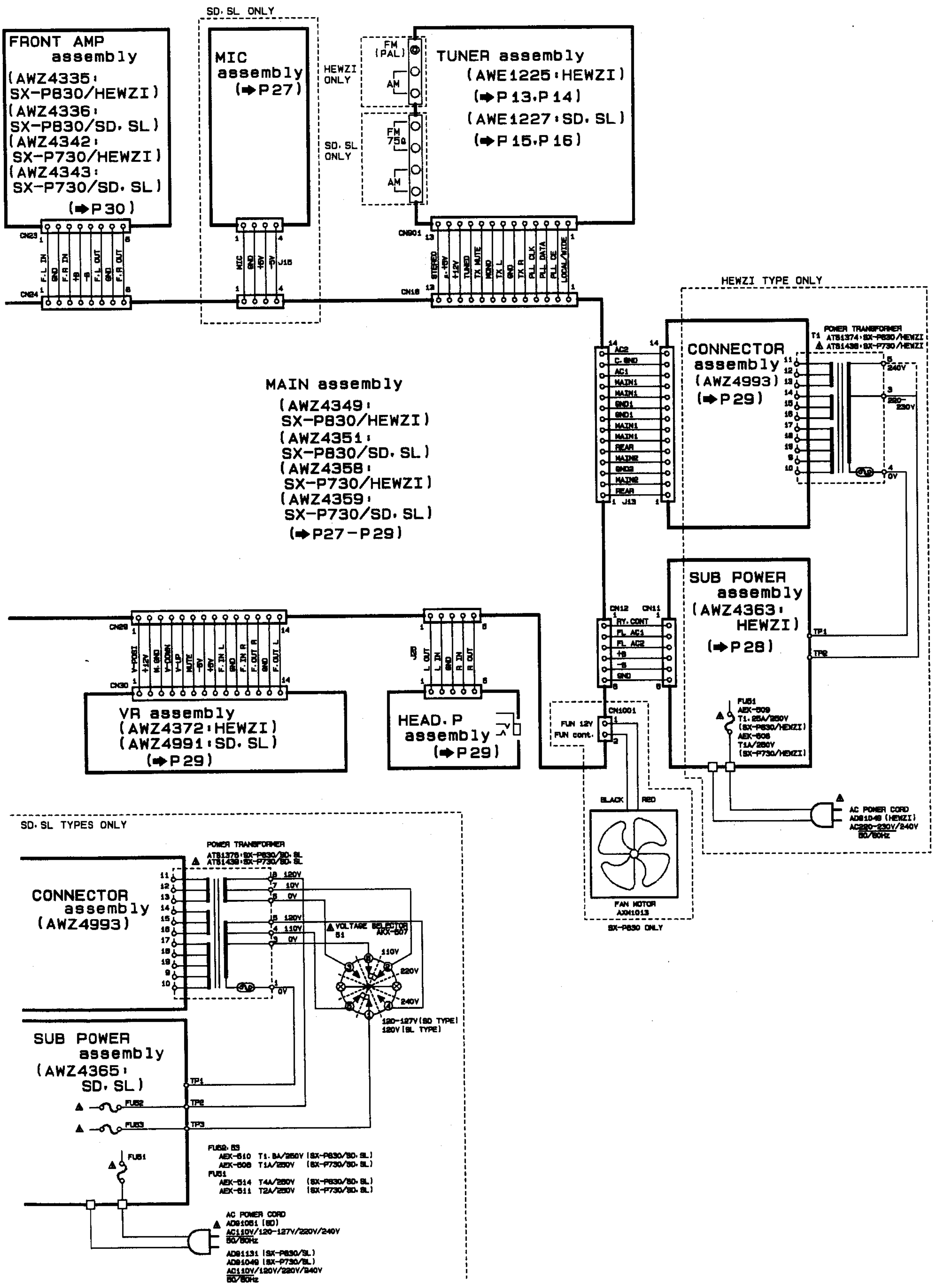
AWZ4342 and AWZ4341 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ4341	AWZ4342	
	C2024, C2025	....	CKPUYB101K50	....
	C2028, C2029	....	CCCSL470J50	....

**4 : Although AWZ4343 and AWZ4341 are different in part number, they have the same service parts.*

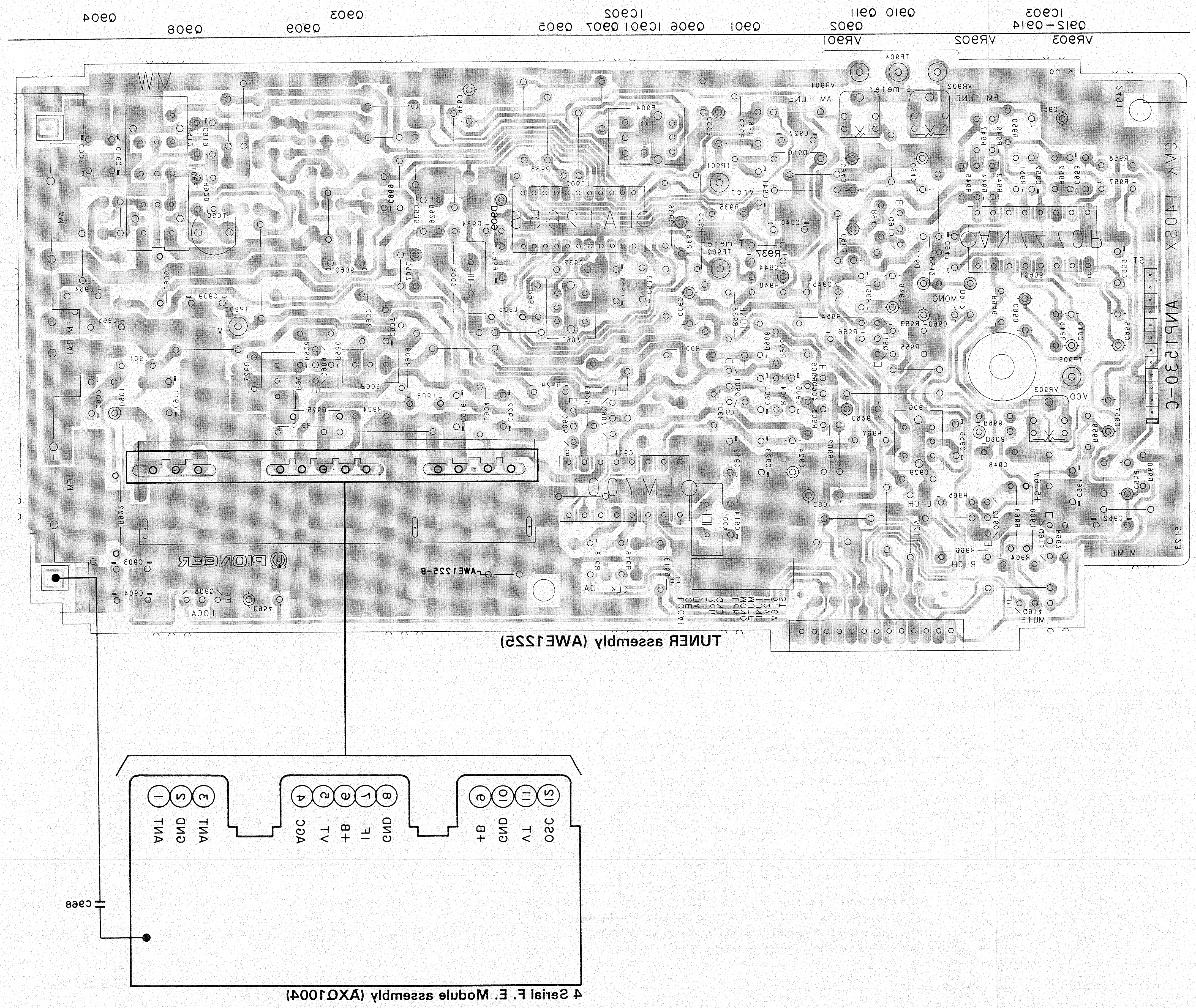
2. SCHEMATIC DIAGRAMS AND PCB PATTERNS

2.1 CONNECTION DIAGRAM


FRONT AMP assembly
(AWZ4335: SX-P830/HEWZI)
(AWZ4336: SX-P830/SD, SL)
(AWZ4342: SX-P730/HEWZI)
(AWZ4343: SX-P730/SD, SL)
(➡P30)
CN23
CN24
F.L IN
GND
F.R IN
+B
−B
F.L OUT
GND
F.R OUT
SD, SL ONLY
MIC assembly
(➡P27)
MIC
GND
+5V
−5V
J15
HEWZI ONLY
FM (PAL)
AM
SD, SL ONLY
FM 75Ω
AM
TUNER assembly
(AWE1225: HEWZI)
(➡P13, P14)
(AWE1227: SD, SL)
(➡P15, P16)
CN901
CN18
STEREO
+5V
+12V
TUNED
TX MUTE
MONO
TX L
GND
TX R
PLL CLK
PLL DATA
PLL CE
LOCAL/WIDE
MAIN assembly
(AWZ4349: SX-P830/HEWZI)
(AWZ4351: SX-P830/SD, SL)
(AWZ4358: SX-P730/HEWZI)
(AWZ4359: SX-P730/SD, SL)
(➡P27−P29)
AC2
C. GND
AC1
MAIN1
MAIN1
GND1
GND1
MAIN1
MAIN1
REAR
MAIN2
GND2
MAIN2
REAR
J13
HEWZI TYPE ONLY
CONNECTOR assembly
(AWZ4993)
(➡P29)
POWER TRANSFORMER
T1 ATS1374: SX-P830/HEWZI
⚠ ATS1438: SX-P730/HEWZI
240V
220−230V
0V
SUB POWER assembly
(AWZ4363: HEWZI)
(➡P28)
TP1
TP2
FU51
AEK-509
T1.25A/250V
(SX-P830/HEWZI)
AEK-508
T1A/250V
(SX-P730/HEWZI)
AC POWER CORD
ADG1048 (HEWZI)
AC220−230V/240V
50/60Hz
CN12
CN11
RY. CONT
FL AC1
FL AC2
+B
−B
GND
CN1001
FUN 12V
FUN cont.
BLACK
RED
FAN MOTOR
AXM1013
SX-P830 ONLY
CN29
CN30
V-POSI
+12V
M. GND
V-DOWN
V-UP
MUTE
−5V
+5V
F. IN L
GND
F. IN R
F. OUT R
GND
F. OUT L
VR assembly
(AWZ4372: HEWZI)
(AWZ4991: SD, SL)
(➡P29)
J20
L OUT
L IN
GND
R IN
R OUT
HEAD. P assembly
(➡P29)
SD, SL TYPES ONLY
POWER TRANSFORMER
⚠ ATS1376: SX-P830/SD, SL
ATS1439: SX-P730/SD, SL
CONNECTOR assembly
(AWZ4993)
120V
10V
0V
120V
110V
0V
0V
⚠ VOLTAGE SELECTOR
S1
AKX-507
110V
220V
240V
120−127V (SD TYPE)
120V (SL TYPE)
SUB POWER assembly
(AWZ4365: SD, SL)
TP1
TP2
TP3
FU52
FU53
FU51
FU52, 53
AEK-510 T1.6A/250V (SX-P830/SD, SL)
AEK-508 T1A/250V (SX-P730/SD, SL)
FU51
AEK-514 T4A/250V (SX-P830/SD, SL)
AEK-511 T2A/250V (SX-P730/SD, SL)
AC POWER CORD
ADG1051 (SD)
AC110V/120−127V/220V/240V
50/60Hz
ADG1131 (SX-P830/SL)
ADG1049 (SX-P730/SL)
AC110V/120V/220V/240V
50/60Hz

2.2 TUNER ASSEMBLY (HEWZI TYPE)

This P. C. B. connection diagram is viewed from the foil side.

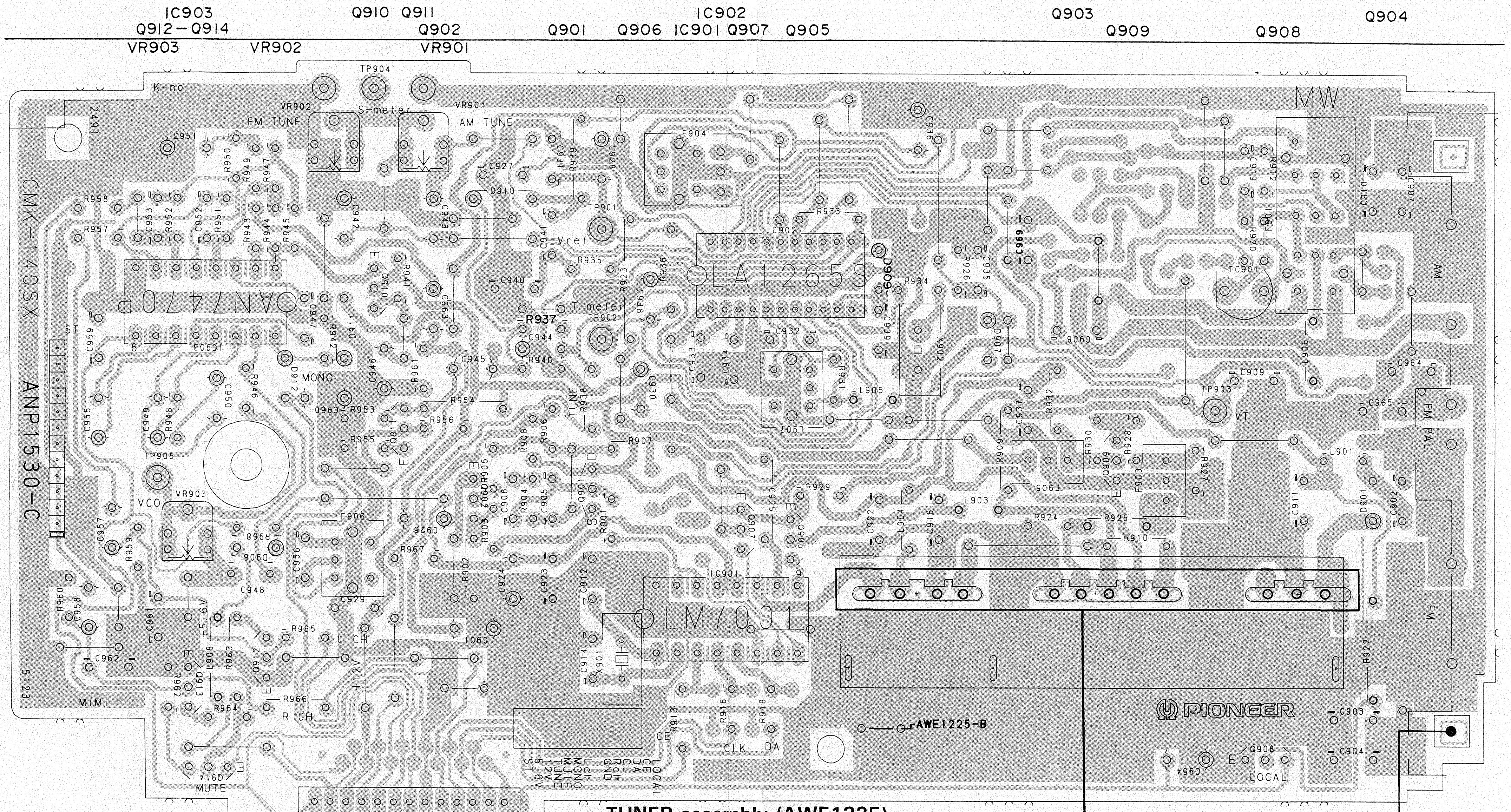

Q904
Q908
Q903
Q909
Q905
IC902
Q907
IC901
Q906
Q901
Q910
Q911
Q902
VR901
VR902
IC903
Q912 – Q914
VR903
MW
MA
FM
FM PAL
TV
LA1265S
LM7001
LC7072 (4072NVO)
S-meter
T-meter
FM TUNE
AM TUNE
MONO
VCO
ST
MUTE
LOCAL
AWE1225-B
PIONEER
CMX-1402X ANP1530-C
DA
CLK
CE
L CH
R CH
1
2
3
4
5
6
8
9
10
11
12
ANT
GND
ANT
AGC
TV
+B
IF
GND
+B
GND
TV
OSC
C968

TUNER assembly (AWE1225)

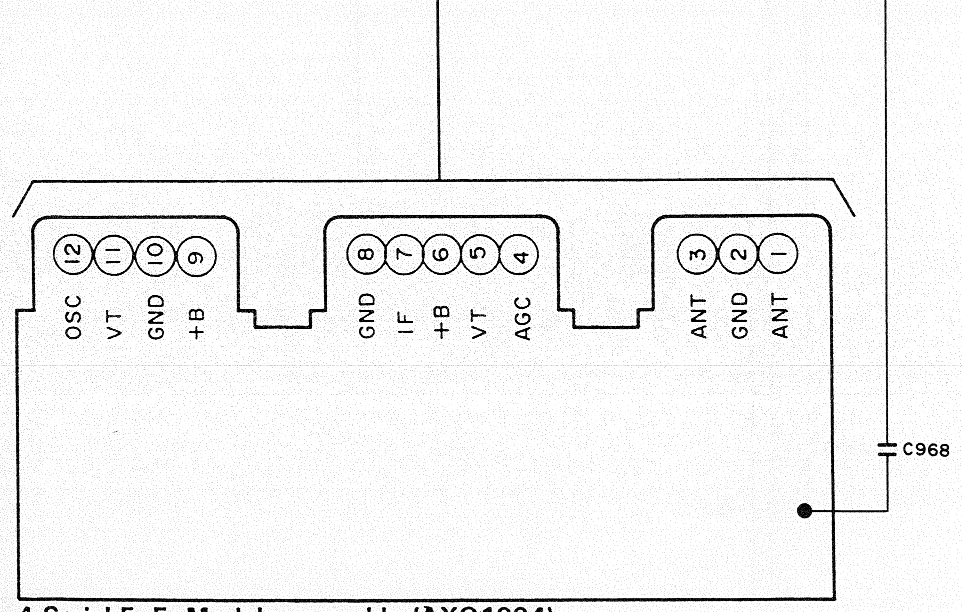
4 Serial F. E. Module assembly (AXQ1004)

2.2 TUNER ASSEMBLY (HEWZI TYPE)

This P. C. B connection diagram is viewed from the parts mounted side.


IC903
Q912－Q914
VR903
VR902
Q910 Q911
Q902
VR901
Q901
Q906
IC902
IC901 Q907
Q905
Q903
Q909
Q908
Q904
K-no
TP904
S-meter
FM TUNE
AM TUNE
CMK-140SX
ANP1530-C
AN7470P
LA1265S
LM7001
T-meter
TP901
TP902
TP903
TP905
Vref
MONO
VCO
ST
MW
AM
FM PAL
FM
L CH
R CH
+12V
MUTE
CLK
DA
LOCAL
MiMi
5123
AWE1225-B
PIONEER
C903
C904
C954
VT

TUNER assembly (AWE1225)


⑫ ⑪ ⑩ ⑨
OSC VT GND +B
⑧ ⑦ ⑥ ⑤ ④
GND IF +B VT AGC
③ ② ①
ANT GND ANT
C968

4 Serial F. E. Module assembly (AXQ1004)

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
E○ Q504 ○ ○	E or E	Transistor
Q215 ○ ○ ○	or	Radiator type transistor
◎ D203 ○	D203	Diode
○ R237 ○	R237	Resistor
◎ C513 ○	+	Capacitor (Polarized)
C518		Capacitor (Non-polarized)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ◎ (double circles) shows negatine terminal.
4. The diode terminal marked with ◎ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

IC901 (LM7001)

Pin No.	Voltage	Pin No.	Voltage
1	1.1	9	0.46
2	1.5	10	0 (1.7 when AM)
3	0	11	2.7
4	0	12	5.0
5	0	13	5.0
6	0	14	0.7
7	—	15	—
8	0	16	0

IC902 (LA1265S)

Pin No.	Voltage	Pin No.	Voltage	Pin No.	Voltage
1	2.3	10	2.8	17	0
2	2.3	11	1.5		12.0 (when AM)
3	2.3	12	1.5	18	0
4	0	13	1.4 (when MAX)		2.0 (when AM)
5	12.0	14	1.4 (when MAX)	19	0
6	12.0		0 (when AM)		2.0 (when AM)
7	12.0	15	2.3	20	3.8
8	0 (T)		1.1 (when AM)	21	3.8
	5.1 (D)	16	1.4	22	2.8
9	3.8				1.5 (when AM)

NOTE :
(T) when TUNE IND. is ON, (D) when TUNE IND. is OFF.

IC903 (AN7470P)

Pin No.	Voltage	Pin No.	Voltage	Pin No.	Voltage
1	11.2	9	4.9	15	3.2
2	2.6		0.6 (when STEREO)	16	0
3	6.1				11.4 (when AM)
4	8.9	10	2.6		4.0 (when MONO)
5	8.9	11	2.6		
6	3.9	12	2.6		
7	3.9	13	—		
8	0	14	2.6		

Note: Type 1

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or μF unless otherwise noted.
   Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electrolytic capacitors.
5. **COILS:**
   Unit: m:mH or μH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   V : Signal voltage at rated output.
   ⊐ : DC voltage (V) at no input signal unless otherwise noted. Value in ( ) is DC voltage at rated power.
   mV : Signal voltage at FM 1kHz, 100% MOD.
   ⇦ mA or ← mA : DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - ➡ : Signal route.
   - ⊘ : Adjusting point.
   - ▼ : Measurement point.
   - The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SWITCHES** (Underline indicates switch position):

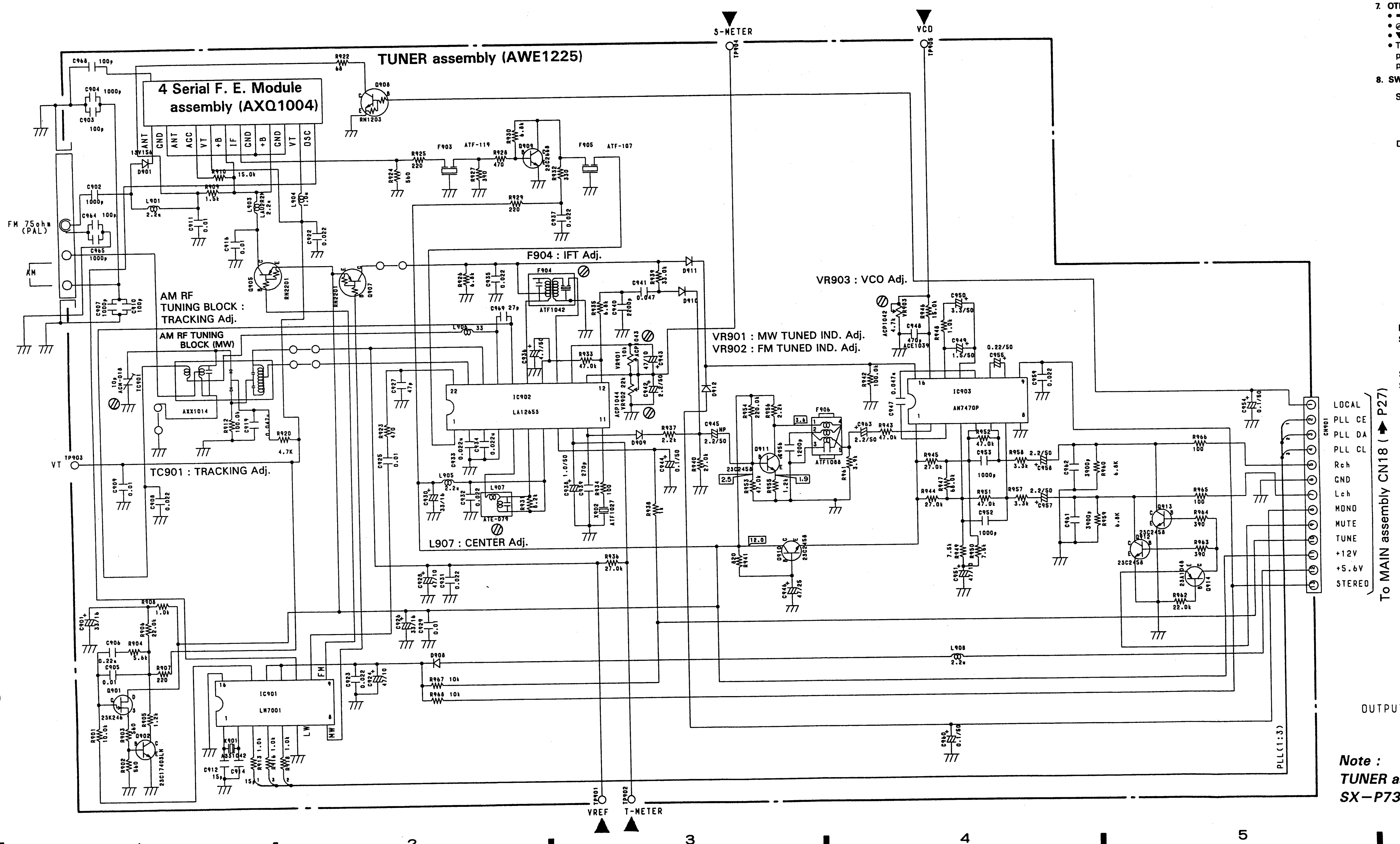
S1 VOLTAGE SELECTOR (SD, SL ONLY)
(AC110V/120−127V/220V/240V for SD type)
(AC110V/120V/220V/240V for SL type)

DISPLAY assembly

S1001	CLOCK ADJ.
S1002	REC
S1003	WAKE−UP
S1004	SET
S1005	NALLOW/LOCAL
S1006	M. SCAN
S1007	MEMORY (AUTO)
S1008	AUTO TUNE
S1009	FUNCTION
S1010	SUPER P. BASS
S1011	FREQ/STATION
S1012	BAND
S1013	POWER STANDBY/ON
S1030	TUNING JOG

MAIN ASSEMBLY
S401 100/10kHz, 50/9kHz (FM/AM)
(SD, SL types ONLY)

SUB POWER ASSEMBLY
S51 VOLTAGE SELECTOR
(AC110−127V/220−240V)
(SD, SL types ONLY)


S-METER
VCO
TUNER assembly (AWE1225)
4 Serial F. E. Module assembly (AXQ1004)
ANT GND ACC VT +B IF GND +B GND VT OSC
FM 75ohm (PAL)
AM
VT
AM RF TUNING BLOCK : TRACKING Adj.
AM RF TUNING BLOCK (MW)
TC901 : TRACKING Adj.
F904 : IFT Adj.
VR903 : VCO Adj.
VR901 : MW TUNED IND. Adj.
VR902 : FM TUNED IND. Adj.
L907 : CENTER Adj.
IC902 LA1265S
IC903 AN7470P
IC901 LM7001
ATF1042
ATF1088
ATF-119
ATF-107
AXX1014
LOCAL
PLL CE
PLL DA
PLL CL
Rch
GND
Lch
MONO
MUTE
TUNE
+12V
+5.6V
STEREO
To MAIN assembly CN18 (➡ P27)
PLL(1:3)
VREF
T-METER
OUTPUT LEVEL
1V

Note :
TUNER assemblies of SX−P830/HEWZI and SX−P730/HEWZI are the same.

2.3 TUNER ASSEMBLY (SD, SL TYPES)

IC901 (LM7001)

Pin No.	Voltage	Pin No.	Voltage	Pin No.	Voltage	Pin No.	Voltage
1	1.1	5	0	9	0.46	13	5.0
2	1.5	6	0	10	0 (1.7 when AM)	14	0.7
3	0	7	–	11	2.7	15	–
4	0	8	0	12	5.0	16	0

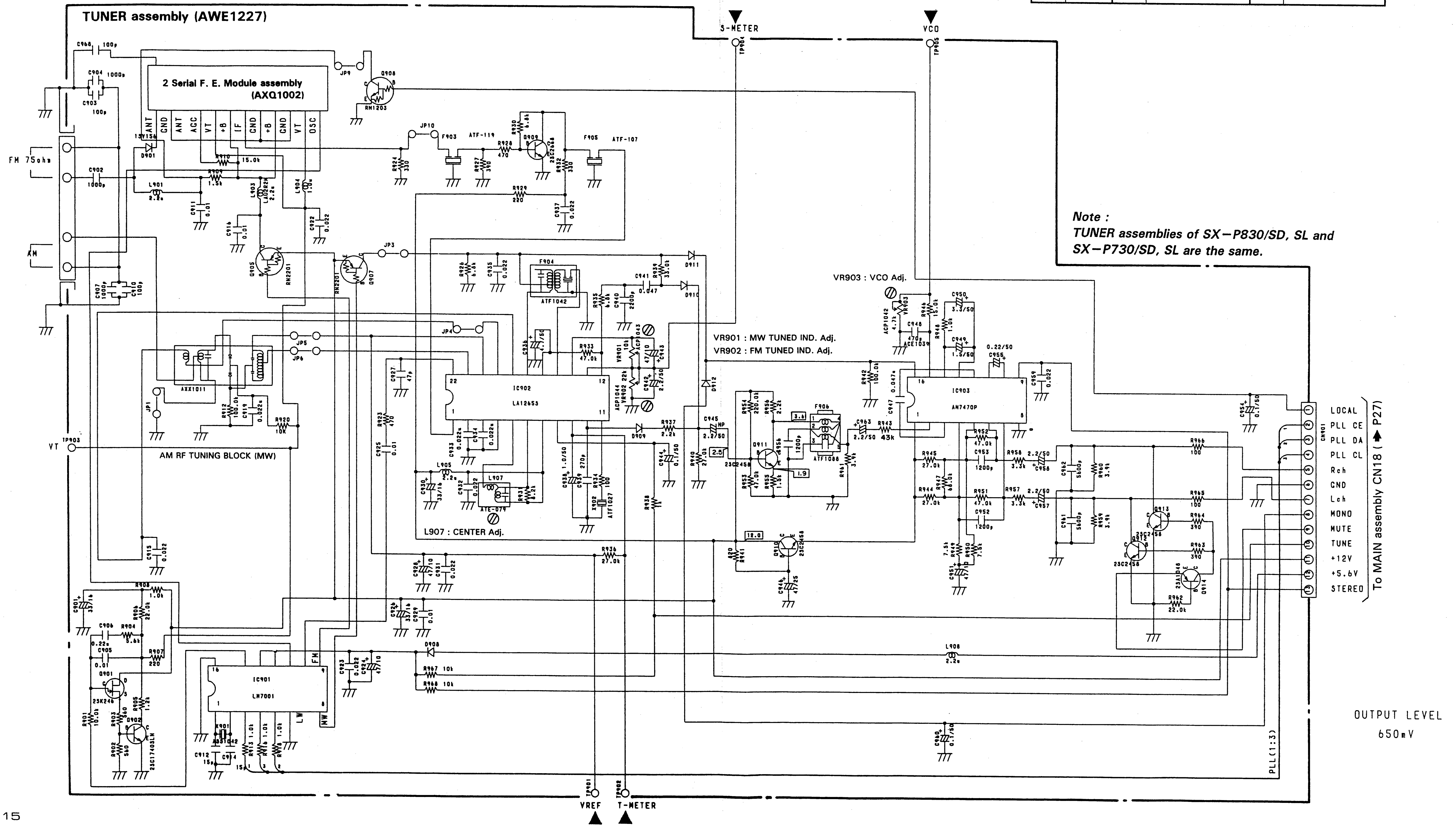
IC902 (LA1265S)

Pin No.	Voltage	Pin No.	Voltage	Pin No.	Voltage	Pin No.	Voltage	Pin No.	Voltage
1	2.3	7	12.0	12	1.5	16	1.4	19	0
2	2.3	8	0 (T)	13	1.4 (when MAX)				2.0 (when AM)
3	2.3		5.1 (D)	14	1.4 (when MAX)	17	0	20	3.8
4	0	9	3.8		0 (when AM)		12.0 (when AM)	21	3.8
5	12.0	10	2.8	15	2.3	18	0	22	2.8
6	12.0	11	1.5		1.1 (when AM)		2.0 (when AM)		1.5 (when AM)

NOTE :
(T) when TUNE IND. is ON, (D) when TUNE IND. is OFF.

IC903 (AN7470P)

Pin No.	Voltage	Pin No.	Voltage	Pin No.	Voltage
1	11.2	9	4.9	15	3.2
2	2.6		0.6 (when STEREO)	16	0
3	6.1				11.4 (when AM)
4	8.9	10	2.6		
5	8.9	11	2.6		4.0 (when MONO)
6	3.9	12	2.6		
7	3.9	13	—		
8	0	14	2.6		


TUNER assembly (AWE1227)
2 Serial F. E. Module assembly
(AXQ1002)
ANT
GND
ANT
ACC
VT
+B
IF
GND
+B
GND
VT
OSC
FM 75ohm
AM
VT
TP903
AXX1011
AM RF TUNING BLOCK (MW)
S-METER
TP904
VCO
TP905
IC902
LA1265S
IC903
AN7470P
IC901
LM7001
F903
ATF-119
F905
ATF-107
F904
ATF1042
F906
ATF1088
ATE-079
ATF1027
X901
X902
L907
Q901
Q902
Q903
Q905
Q907
Q908
Q909
Q910
Q911
Q912
Q913
Q914
2SC2458
2SC2668
2SA1048
2SK246
2SC1740SLN
RN1203
RN2201
D901
D908
D909
D910
D911
D912
JP1
JP3
JP4
JP5
JP6
JP9
JP10
L908
CN901
LOCAL
PLL CE
PLL DA
PLL CL
Rch
GND
Lch
MONO
MUTE
TUNE
+12V
+5.6V
STEREO
To MAIN assembly CN18 (➡ P27)
OUTPUT LEVEL
650mV
PLL(1:3)
VREF
TP901
T-METER
TP902
FM
MW
LW

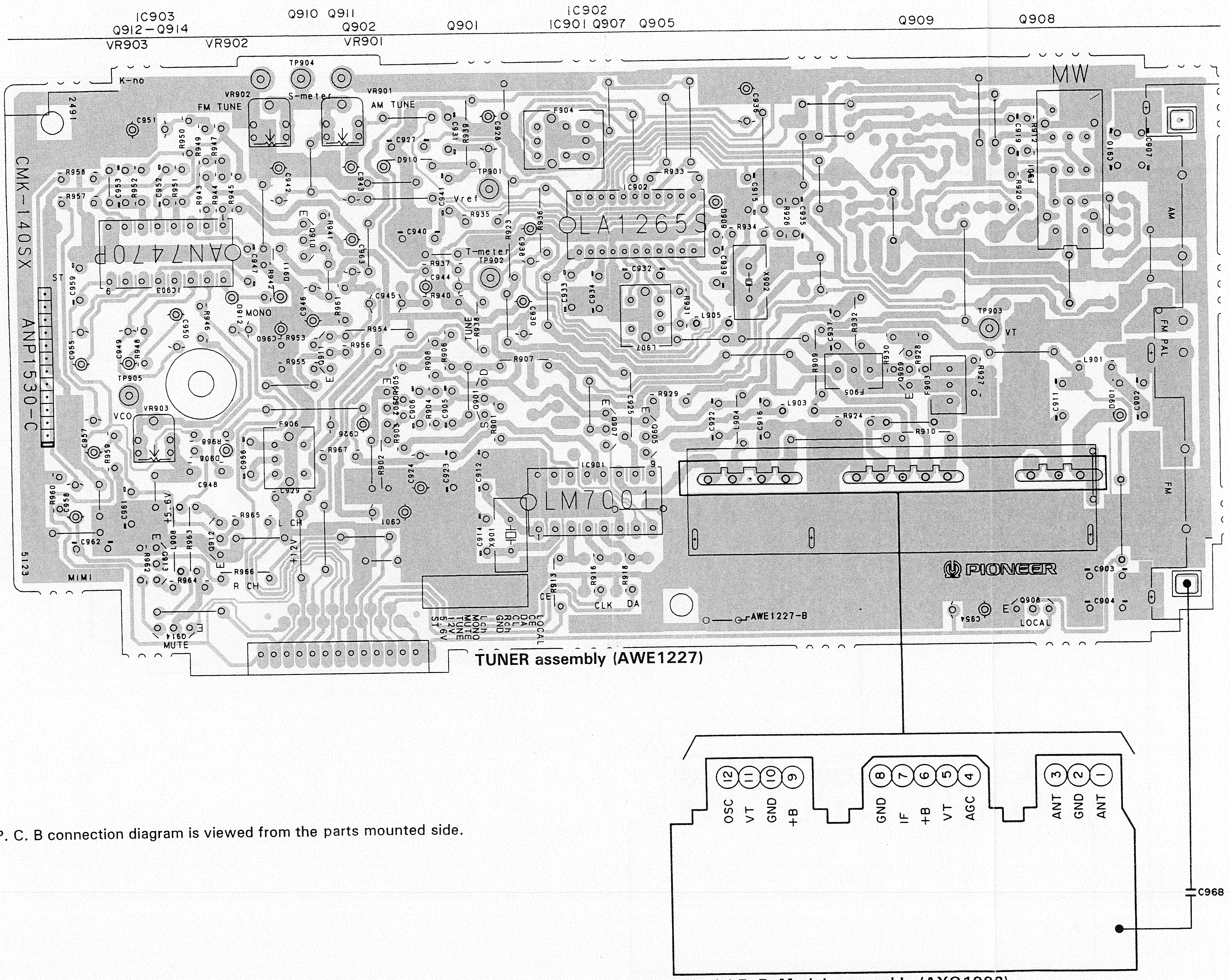
Note :
TUNER assemblies of SX−P830/SD, SL and SX−P730/SD, SL are the same.

VR903 : VCO Adj.

VR901 : MW TUNED IND. Adj.

VR902 : FM TUNED IND. Adj.

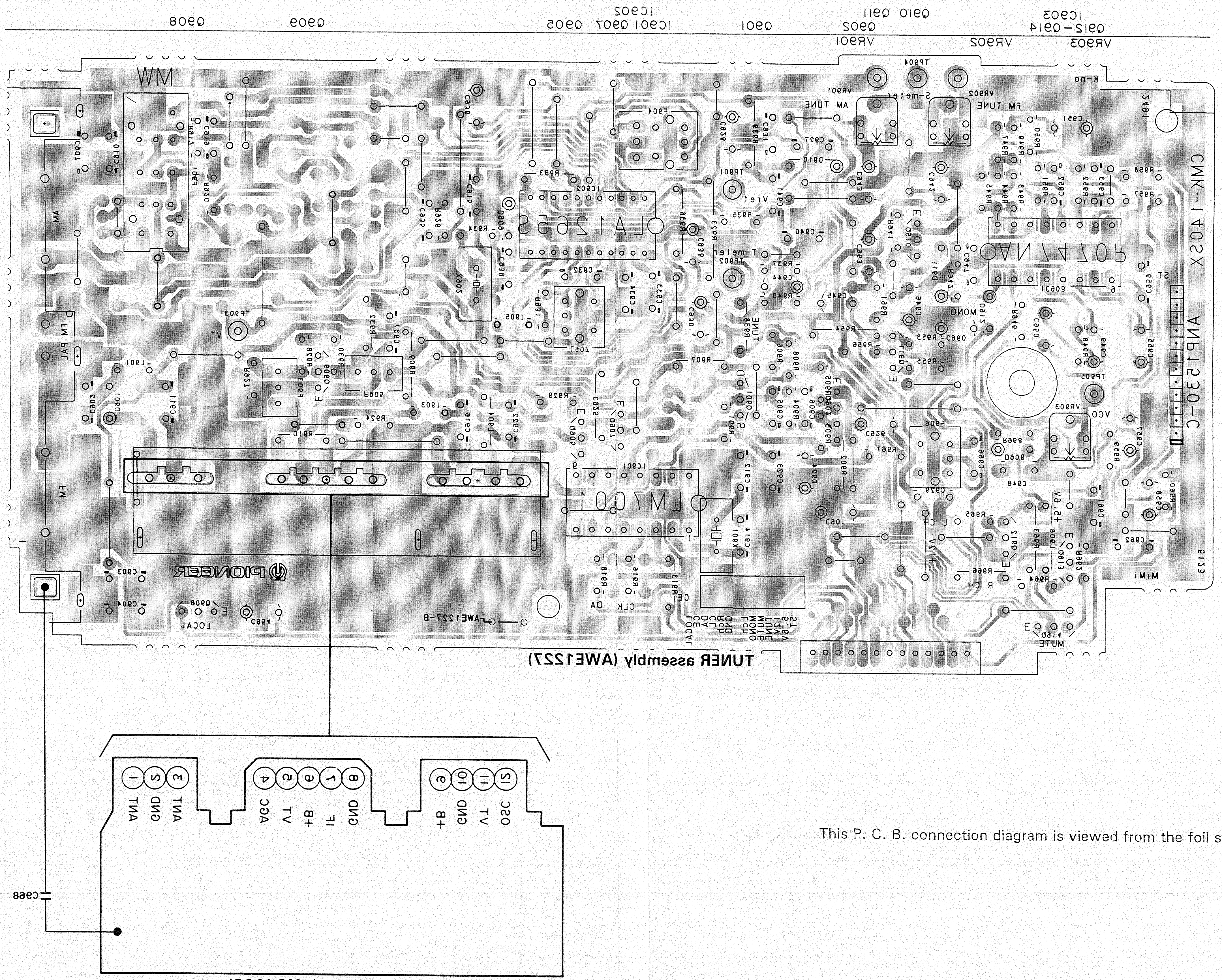
L907 : CENTER Adj.


IC903
Q912–Q914
VR903
VR902
Q910 Q911
Q902
VR901
Q901
IC902
IC901 Q907 Q905
Q909
Q908
FM TUNE
AM TUNE
S-meter
T-meter
Vref
K-no
MW
AM
FM PAL
FM
VT
CMK-140SX
ANP1530-C
AN7470P
LA1265S
LM7001
MONO
VCO
ST
MIMI
MUTE
L CH
R CH
+5.6V
+12V
CLK
DA
LOCAL
PIONEER
AWE1227-B
C968
OSC
VT
GND
+B
GND
IF
+B
VT
AGC
ANT
GND
ANT
12
11
10
9
8
7
6
5
4
3
2
1

TUNER assembly (AWE1227)

2 Serial F. E. Module assembly (AXQ1002)

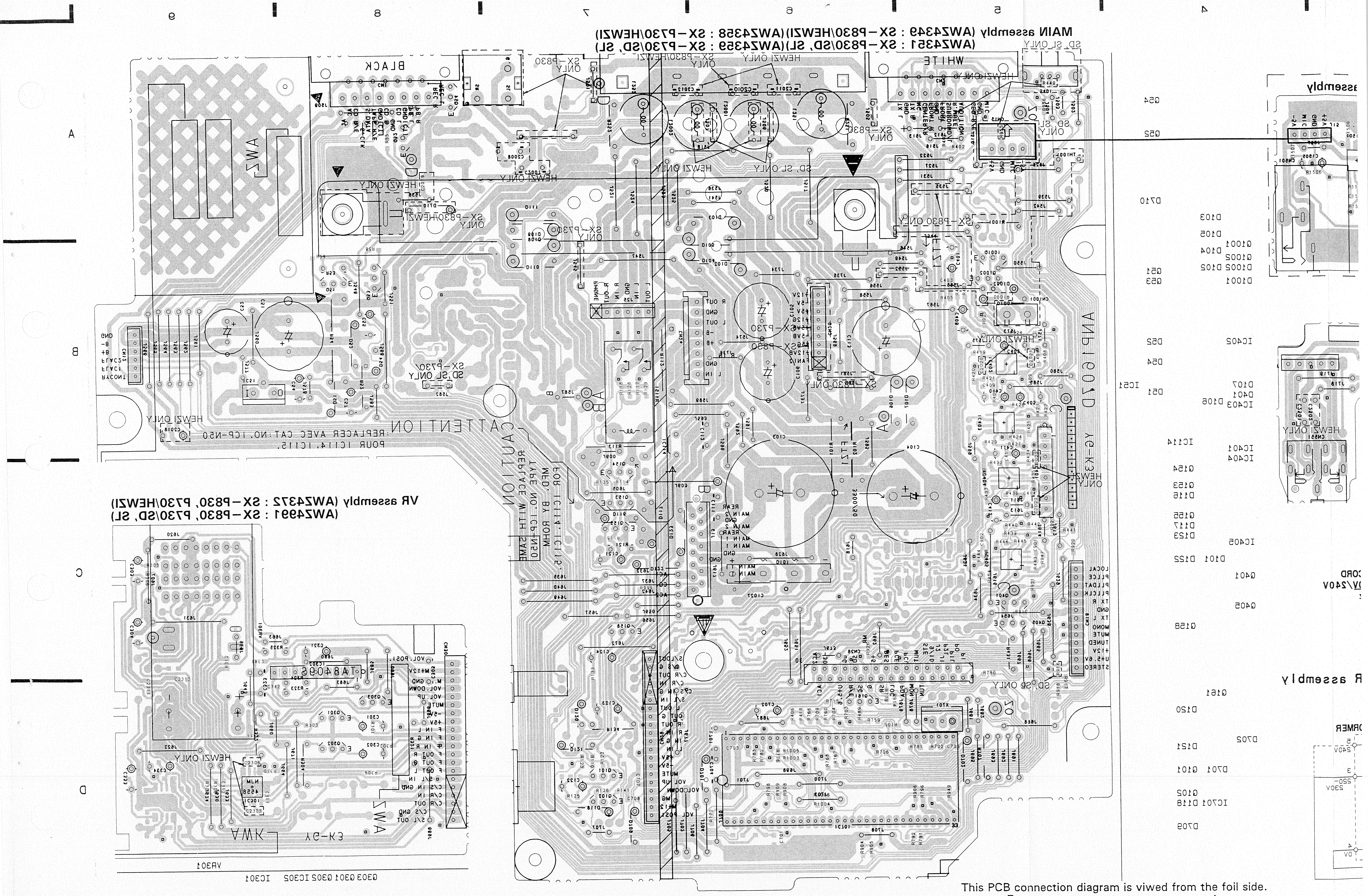
This P. C. B connection diagram is viewed from the parts mounted side.


IC903
Q912–Q914
VR903
Q910 Q911
Q902
VR901
VR902
IC902
IC901 Q907 Q905
Q901
Q909
Q908
CMK-1405X
ANP1530-C
LA1265S
LM7001
LA7347
MW
FM
AM TUNE
FM TUNE
S-meter
T-meter
MONO
ST
VCO
LOCAL
MUTE
PIONEER
AWE1227-B
ANT
GND
AGC
TV
+B
IF
OSC
C968

TUNER assembly (AWE1227)

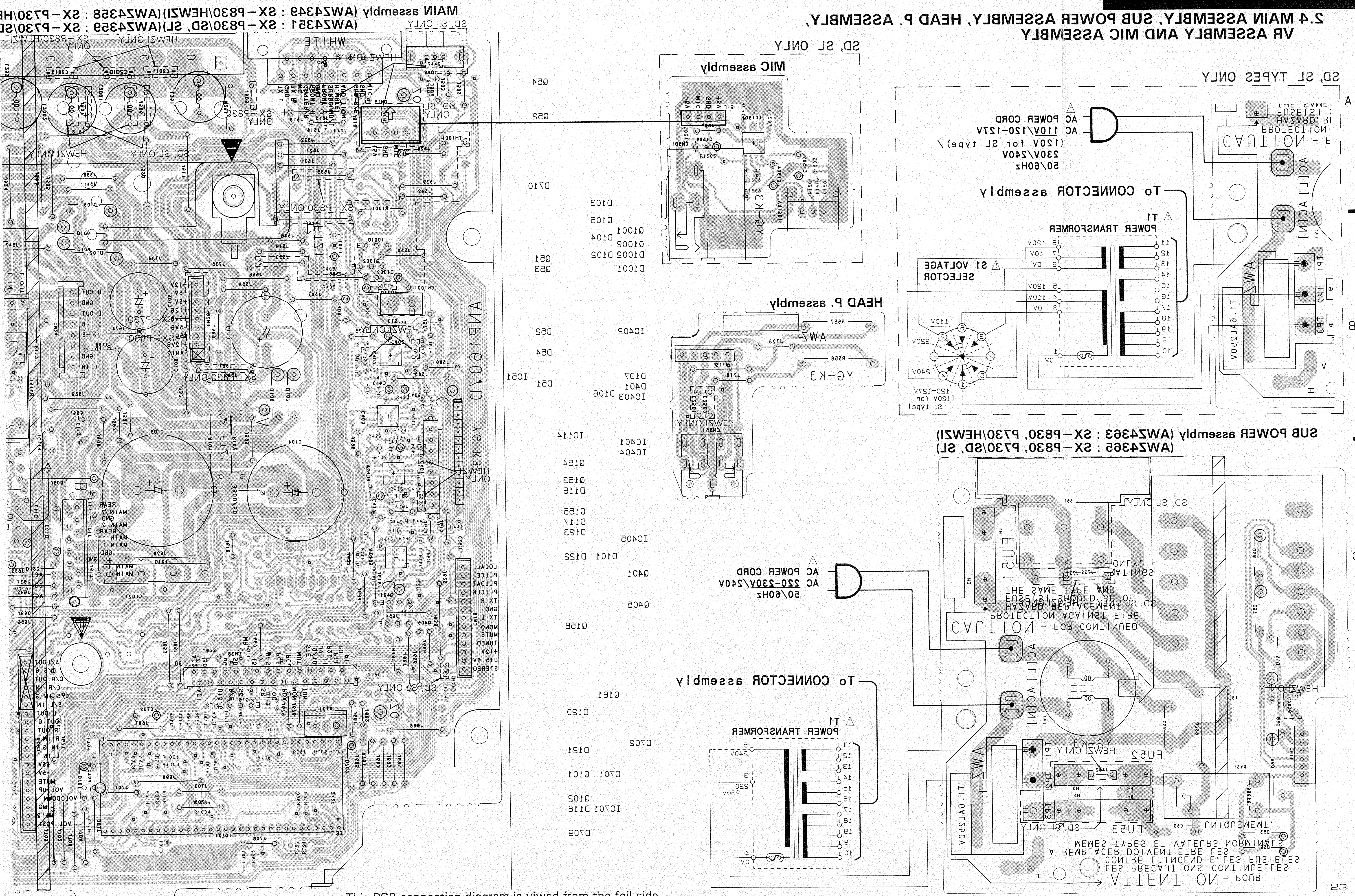
2 Serial F. E. Module assembly (AXQ1002)

This P. C. B. connection diagram is viewed from the foil side.


MAIN assembly (AWZ4349 : SX-P830/HEWZI)(AWZ4358 : SX-P730/HEWZI)
(AWZ4351 : SX-P830/SD, SL)(AWZ4359 : SX-P730/SD, SL)
VR assembly (AWZ4372 : SX-P830, P730/HEWZI)
(AWZ4991 : SX-P830, P730/SD, SL)
ATTENTION : REPLACER AVEC CAT. NO. ICP-N50 POUR IC114, IC115.
CAUTION REPLACE WITH SAME TYPE NO. ICP-N50 MFD. BY ROHM FOR IC114, IC115
BLACK
WHITE
9
8
7
6
5
4
A
B
C
D

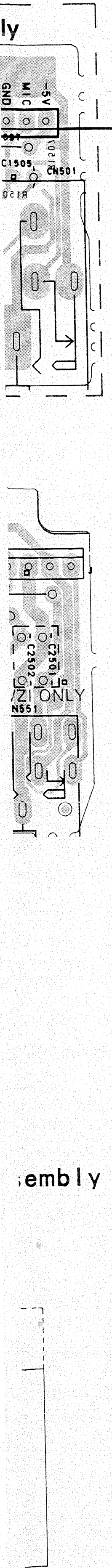
This PCB connection diagram is viwed from the foil side.

2.4 MAIN ASSEMBLY, SUB POWER ASSEMBLY, HEAD P. ASSEMBLY, VR ASSEMBLY AND MIC ASSEMBLY

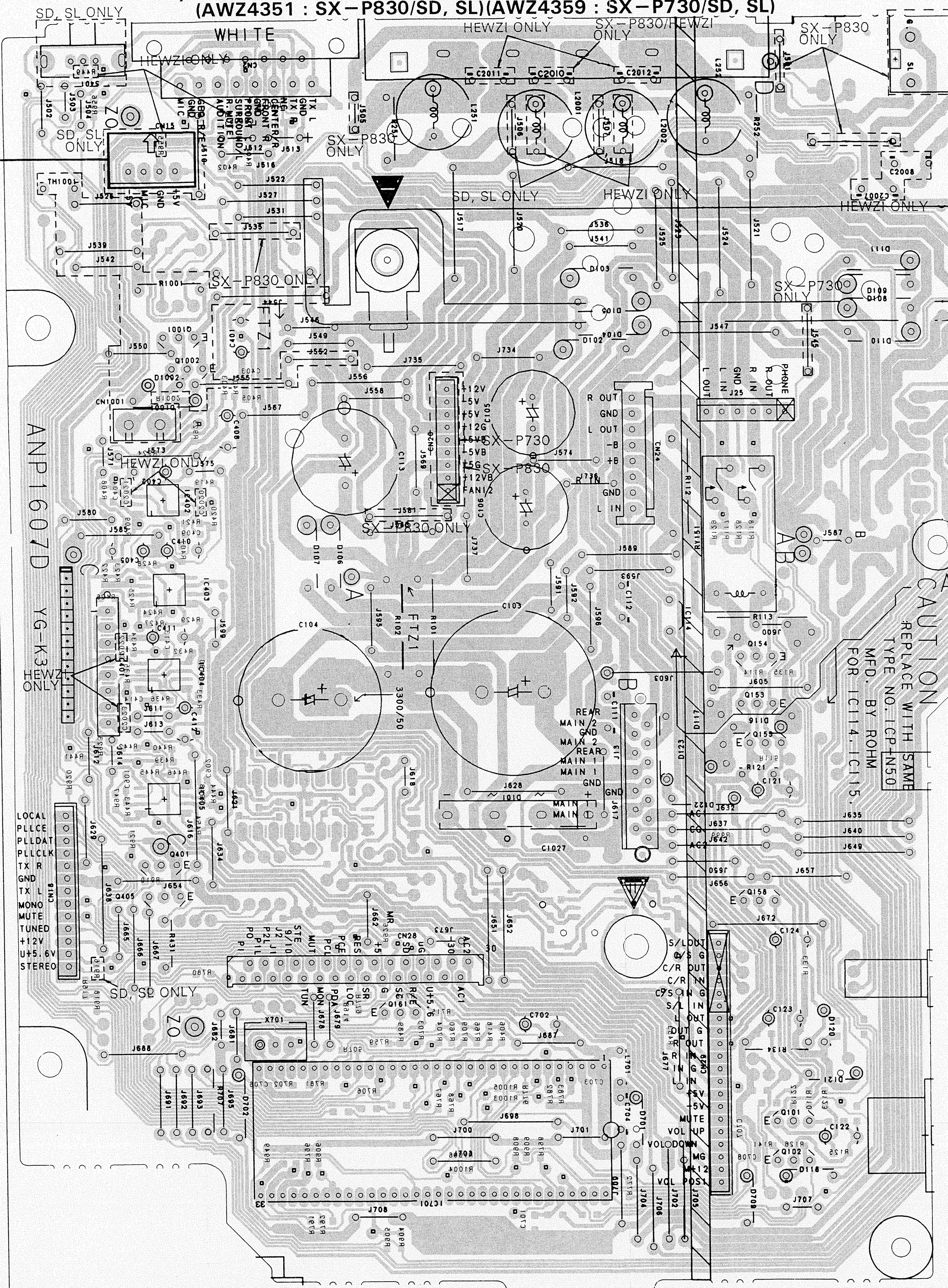

MAIN assembly (AWZ4349 : SX-P830/HEWZI)(AWZ4358 : SX-P730/HE
(AWZ4351 : SX-P830/SD, SL)(AWZ4359 : SX-P730/SD
SD, SL ONLY
MIC assembly
HEAD P. assembly
SD, SL TYPES ONLY
AC POWER CORD
AC 110V/120-127V
(120V for SL type)/
230V/240V
50/60Hz
To CONNECTOR assembly
T1 POWER TRANSFORMER
S1 VOLTAGE SELECTOR
CAUTION - FOR CONTINUED PROTECTION AGAINST FIRE HAZARD REPLACEMENT FUSE(S) SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.
SUB POWER assembly (AWZ4363 : SX-P830, P730/HEWZI)
(AWZ4365 : SX-P830, P730/SD, SL)
AC POWER CORD
AC 220-230V/240V
50/60Hz
To CONNECTOR assembly
T1 POWER TRANSFORMER
ATTENTION - POUR LES PRECAUTIONS CONTINUELES CONTRE L'INCENDIE LES FUSIBLES A REMPLACER DOIVENT ETRE LES MEMES TYPES ET VALEURS NORMINALS.
HEWZI ONLY
SX-P830 ONLY
YG-K3
ANP1602D
FU51
FU52
FU53
A
B
C
D
1
2
3
4
5
6

This PCB connection diagram is viwed from the foil side.

MAIN assembly (AWZ4349 : SX−P830/HEWZI)(AWZ4358 : SX−P730/HEWZI)
(AWZ4351 : SX−P830/SD, SL)(AWZ4359 : SX−P730/SD, SL)

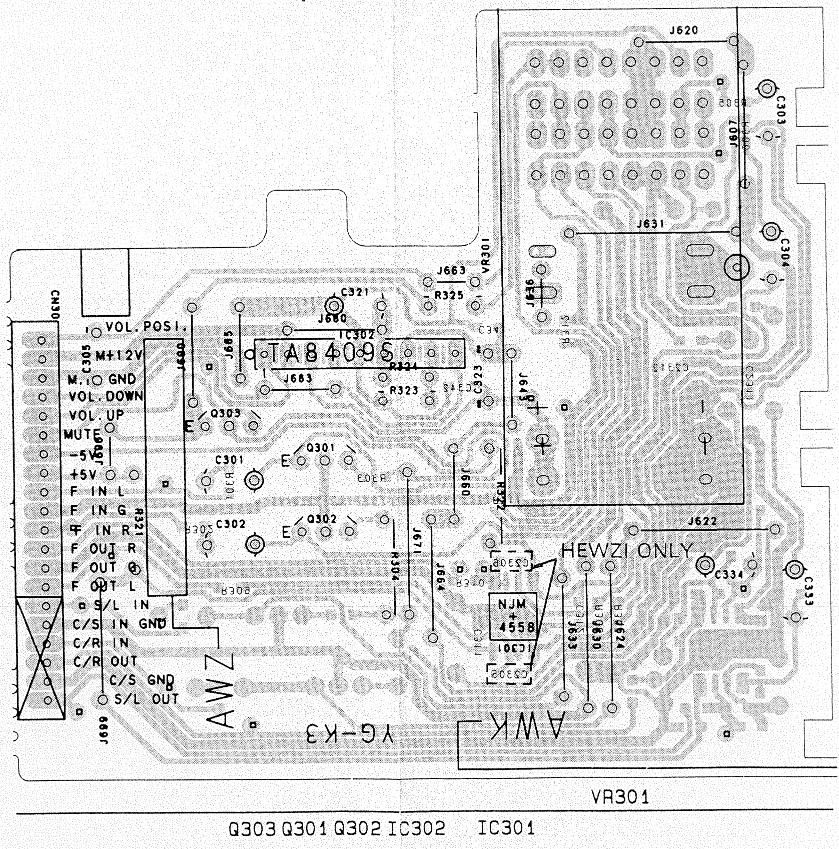


Q54
Q52
D710
D103
D105
Q1001 D104
Q1002
D1002 D102
D1001
Q51
Q53
IC402
D52
D54
D107
D401
IC403 D106
D51
IC51
IC401
IC404
IC114
Q154
Q153
D116
Q155
D117
D123
IC405
D101 D122
Q401
Q405
Q158
Q161
D120
D702
D121
D701 Q101
Q102
IC701 D118
D709



SD, SL ONLY
WHITE
HEWZI ONLY
SX−P830/HEWZI ONLY
SX−P830 ONLY
BLACK
SD, SL ONLY
SX−P830 ONLY
SX−P730 ONLY
SX−P830/HEWZI ONLY
SX−P730/SD, SL ONLY
AWZ
ANP1607D
YG-K3
FTZ1
3300/50
ATTENTION: REPLACER AVEC CAT: NO. ICP-N50 POUR IC114, IC115.
CAUTION REPLACE WITH SAME TYPE NO. ICP-N50 MFD. BY ROHM FOR IC114, IC115
LOCAL
PLLCE
PLLDAT
PLLCLK
TX R
GND
TX L
MONO
MUTE
TUNED
+12V
U+5.6V
STEREO
R OUT
GND
L OUT
-B
+B
R IN
GND
L IN
L OUT
GND
R OUT
PHONE
REAR
MAIN 2
GND
MAIN 1

VR assembly (AWZ4372 : SX−P830, P730/HEWZI)
(AWZ4991 : SX−P830, P730/SD, SL)

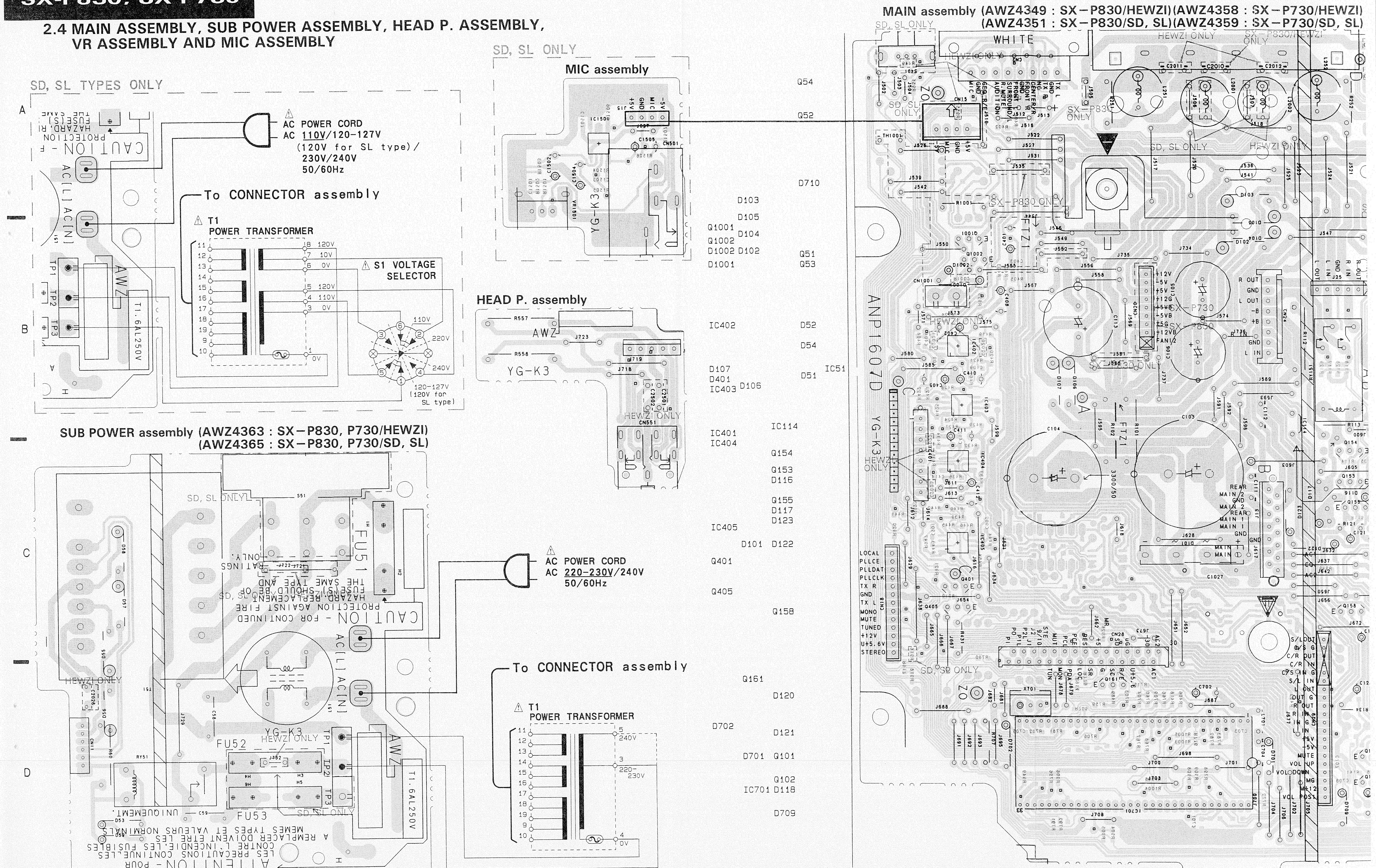


VOL. POSI.
M+12V
M. GND
VOL. DOWN
VOL. UP
MUTE
-5V
+5V
F IN L
F IN R
R IN R
F OUT R
F OUT L
C/S S/L IN
C/S IN GND
C/R IN
C/R OUT
C/S GND
S/L OUT
TA8409S
NJM 4558
HEWZI ONLY
AWZ
YG-K3
AWK
VR301

Q303 Q301 Q302 IC302 IC301

This PCB connection diagram is viewd from the parts mounted side.

2.4 MAIN ASSEMBLY, SUB POWER ASSEMBLY, HEAD P. ASSEMBLY, VR ASSEMBLY AND MIC ASSEMBLY



MAIN assembly (AWZ4349 : SX−P830/HEWZI)(AWZ4358 : SX−P730/HEWZI)
(AWZ4351 : SX−P830/SD, SL)(AWZ4359 : SX−P730/SD, SL)

MIC assembly

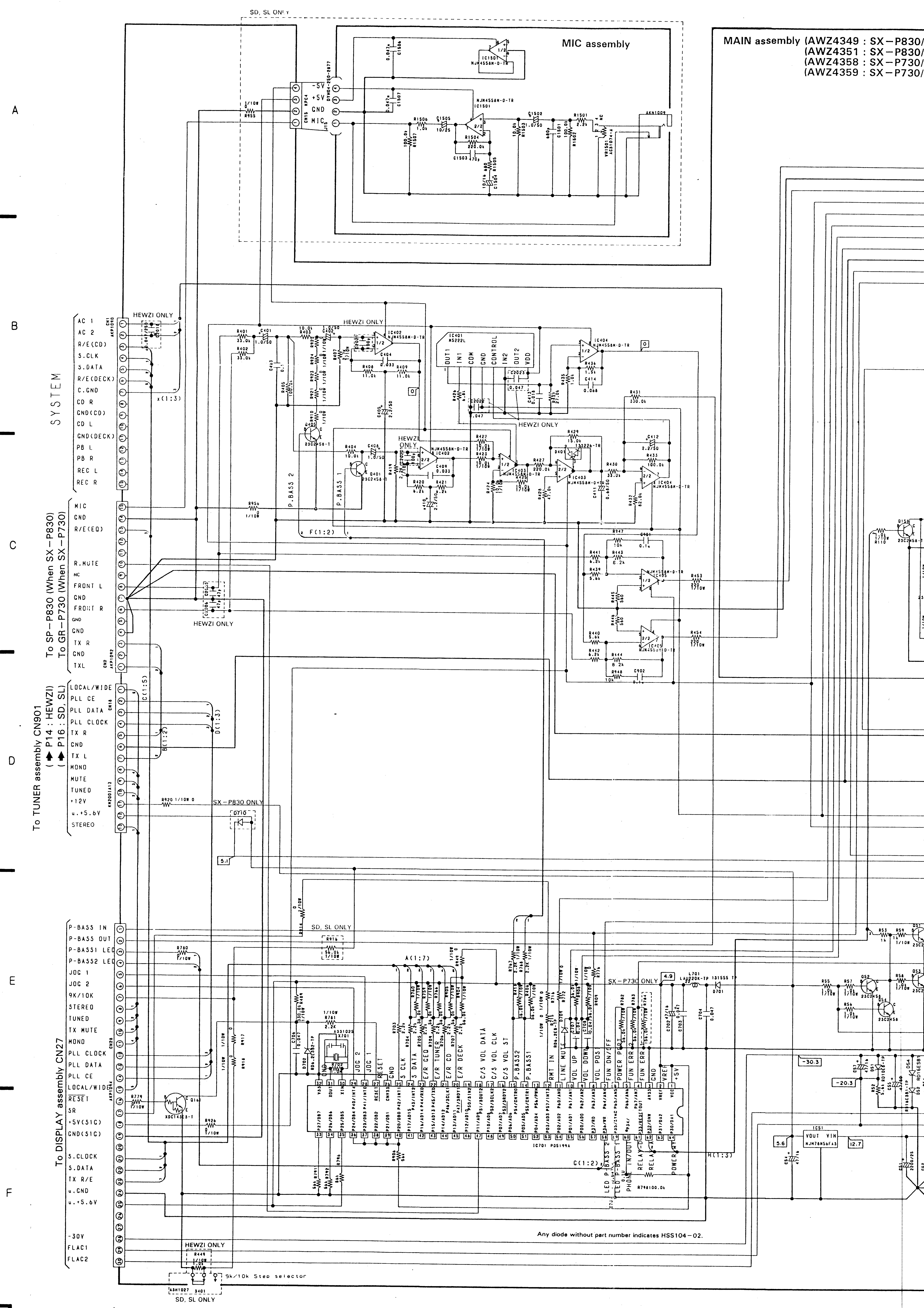
HEAD P. assembly

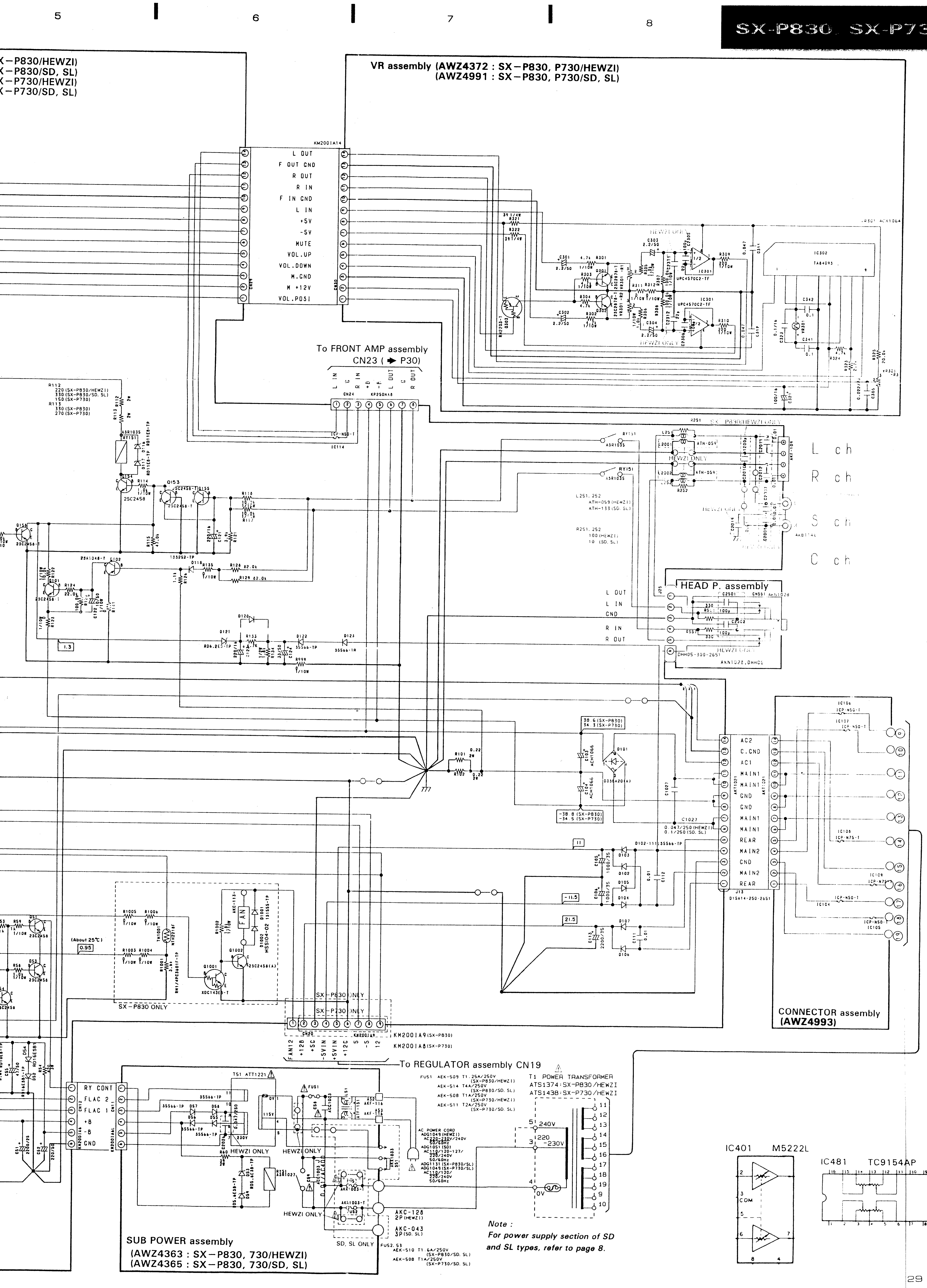
SUB POWER assembly (AWZ4363 : SX−P830, P730/HEWZI)
(AWZ4365 : SX−P830, P730/SD, SL)

SD, SL TYPES ONLY
SD, SL ONLY
⚠ AC POWER CORD
AC 110V/120-127V
(120V for SL type)/
230V/240V
50/60Hz
To CONNECTOR assembly
⚠ T1
POWER TRANSFORMER
⚠ S1 VOLTAGE
SELECTOR
120V
10V
0V
120V
110V
0V
110V
220V
240V
120-127V
(120V for
SL type)
CAUTION - FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSE(S) SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.
AC[L] AC[N]
TP1
TP2
TP3
AWZ
T1.6AL250V
YG-K3
AWZ
HEWZI ONLY
CN551
⚠ AC POWER CORD
AC 220-230V/240V
50/60Hz
240V
220-230V
0V
FU51
FU52
FU53
ATTENTION - POUR LES PRECAUTIONS CONTINUELLES CONTRE L'INCENDIE, LES FUSIBLES A REMPLACER DOIVENT ETRE LES MEMES TYPES ET VALEURS NOMINALES UNIQUEMENT.
Q54
Q52
D710
D103
D105
Q1001
Q1002
D1002
D1001
D104
D102
Q51
Q53
IC402
D52
D54
D107
D401
IC403
D106
D51
IC51
IC114
IC401
IC404
Q154
Q153
D116
Q155
D117
D123
IC405
D101
D122
Q401
Q405
Q158
Q161
D120
D702
D121
D701
Q101
Q102
IC701
D118
D709
WHITE
HEWZI ONLY
SX-P830/HEWZI ONLY
SX-P830 ONLY
SX-P730
SX-P830
ANP1607D YG-K3
FTZ1
3300/50
R OUT
GND
L OUT
L IN
REAR MAIN
MAIN
LOCAL
PLLCE
PLLDAT
PLLCLK
TX R
GND
TX L
MONO
MUTE
TUNED
+12V
U+5.6V
STEREO
MUTE
VOL UP
VOL DOWN
VOL POS
X701

This PCB connection diagram is viewd from the parts mounted side.

MAIN assembly (AWZ4349 : SX−P830/
(AWZ4351 : SX−P830/
(AWZ4358 : SX−P730/
(AWZ4359 : SX−P730/


1
2
3
4
A
B
C
D
E
F
SD, SL ONLY
MIC assembly
IC1501 NJM4558M-D-TR
CN15 KPC4
−5V
+5V
GND
MIC
J15 DTH04-250-0877
AKN1009
VR1501
SYSTEM
CN1 AKP1090
AC 1
AC 2
R/E(CD)
S.CLK
S.DATA
R/E(DECK)
C.GND
CD R
GND(CD)
CD L
GND(DECK)
PB L
PB R
REC L
REC R
HEWZI ONLY
x(1:3)
To SP−P830 (When SX−P830)
To GR−P730 (When SX−P730)
CN2 AKP1092
MIC
GND
R/E(EQ)
R.MUTE
NC
FRONT L
GND
FRONT R
GND
GND
TX R
GND
TXL
To TUNER assembly CN901
(⬆ P14 : HEWZI)
(⬆ P16 : SD, SL)
CN18 KM200NA13
LOCAL/WIDE
PLL CE
PLL DATA
PLL CLOCK
TX R
GND
TX L
MONO
MUTE
TUNED
+12V
u.+5.6V
STEREO
C(1:5)
D(1:3)
B(1:2)
SX−P830 ONLY
D710
5.1
IC401 M5222L
OUT1
IN1
COM
GND
CONTROL
IN2
OUT2
VDD
IC402 NJM4558M-D-TR
IC403 NJM4558M-D-TR
IC404 NJM4558M-D-TR
IC405 NJM4558M-D-TR
Q401 2SC2458
Q402 2SC2458
D401 1SS226-TR
P.BASS 2
P.BASS 1
F(1:2)
To DISPLAY assembly CN27
CN28 AKP1004
P-BASS IN
P-BASS OUT
P-BASS1 LED
P-BASS2 LED
JOG 1
JOG 2
9K/10K
STEREO
TUNED
TX MUTE
MONO
PLL CLOCK
PLL DATA
PLL CE
LOCAL/WIDE
RESET
SR
+5V(SIC)
GND(SIC)
S.CLOCK
S.DATA
TX R/E
u.GND
u.+5.6V
−30V
FLAC1
FLAC2
Q161 XDC143E3-T
SD, SL ONLY
R916 56.0k
A(1:7)
X701 ASS1025
IC701 PDS199A
SX−P730 ONLY
4.9
L701 LAU220K-TP
D701 1SS355
C(1:2)
H(1:3)
LED P.BASS 2
LED P.BASS 1
PHONE IN/OUT
RELAY
POWER
R798 100.0k
Any diode without part number indicates HSS104−02.
HEWZI ONLY
R449
9k/10k Step selector
ASH1027 S401
SD, SL ONLY
−30.3
−20.3
5.6
12.7
IC51 NJM78M56FA3
VOUT VIN
Q51
Q52 2SC2458
Q53
Q54 2SC2458
Q158 2SC2458

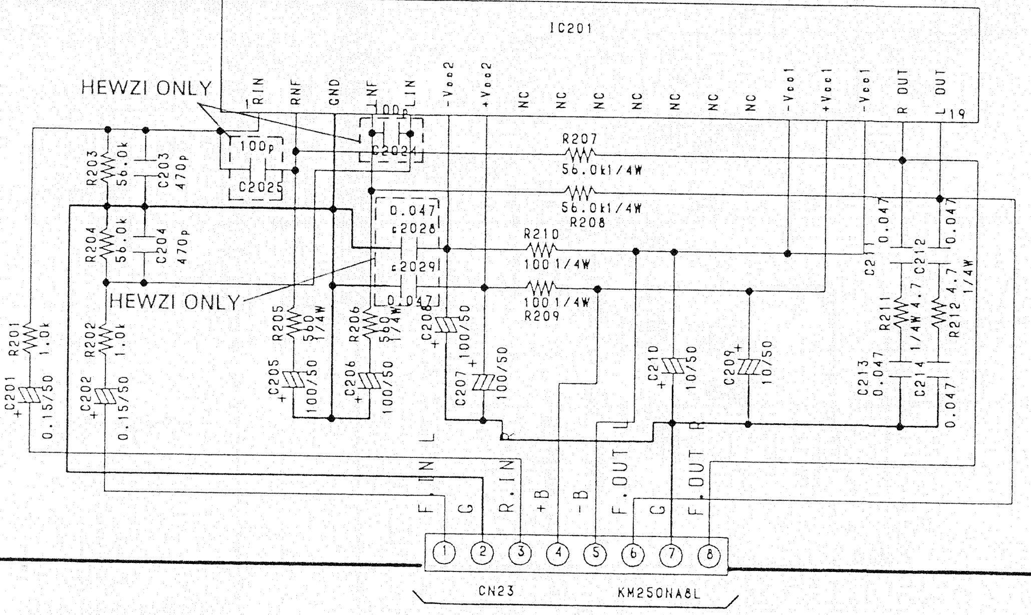

5
6
7
8
-P830/HEWZI)
-P830/SD, SL)
-P730/HEWZI)
-P730/SD, SL)
VR assembly (AWZ4372 : SX-P830, P730/HEWZI)
(AWZ4991 : SX-P830, P730/SD, SL)
KM2001A14
L OUT
F OUT GND
R OUT
R IN
F IN GND
L IN
+5V
-5V
MUTE
VOL.UP
VOL.DOWN
M.GND
M +12V
VOL.POSI
CN29
CN30
HEWZI ONLY
IC301
UPC4570C2-TF
IC302
TA84095
VR301
To FRONT AMP assembly
CN23 (➔ P30)
L IN
C IN
R IN
+B
-B
L OUT
C OUT
R OUT
CN24
KP250NA8
IC114
R112
220 (SX-P830/HEWZI)
330 (SX-P830/SD, SL)
150 (SX-P730)
R113
330 (SX-P830)
270 (SX-P730)
RY151
ASR1035
2SC2458
RY151
L251, 252
ATH-059 (HEWZI)
ATH-133 (SD, SL)
R251, 252
100 (HEWZI)
10 (SD, SL)
L ch
R ch
S ch
C ch
AKF-106
AKB1146
SX-P830/HEWZI ONLY
HEAD P. assembly
L OUT
L IN
GND
R IN
R OUT
J25
CN551
AKN1028
DHH05-300-2651
AKN1028, DHH05
1.3
38.6 (SX-P830)
34.3 (SX-P730)
-38.8 (SX-P830)
-34.5 (SX-P730)
D101
D3SBA20(A)
C1027
0.047/250 (HEWZI)
0.1/250 (SD, SL)
11
-11.5
21.5
AC2
C.GND
AC1
MAIN1
MAIN1
GND
GND
MAIN1
MAIN1
REAR
MAIN2
GND
MAIN2
REAR
AKT1021
J13
D15A14-250-2651
CONNECTOR assembly
(AWZ4993)
(About 25°C)
0.95
FAN
AKC-113-
TH1001
Q1001
Q1002
SX-P830 ONLY
SX-P830 ONLY
SX-P730 ONLY
CN20
KM2001A9
KM2001A9 (SX-P830)
KM2001A8 (SX-P730)
FAN12
+12B
+5C
-5VIN
+5VIN
+12C
5
-5
12
To REGULATOR assembly CN19
RY CONT
FLAC 2
FLAC 1
+B
-B
GND
CN12
CN11
T51 ATT1221
FU51
AEK-509 T1.25A/250V (SX-P830/HEWZI)
AEK-514 T4A/250V (SX-P830/SD, SL)
AEK-508 T1A/250V (SX-P730/HEWZI)
AEK-511 T2A/250V (SX-P730/SD, SL)
T1 POWER TRANSFORMER
ATS1374 : SX-P830/HEWZI
ATS1438 : SX-P730/HEWZI
AC POWER CORD
ADG1049 (HEWZI) AC220-230V/240V 50/60Hz
ADG1051 (SD) AC110/120-127/220/240V 50/60Hz
ADG1131 (SX-P830/SL)
ADG1049 (SX-P730/SL) AC110/120/220/240V 50/60Hz
240V
220 -230V
0V
HEWZI ONLY
HEWZI ONLY
HEWZI ONLY
SD, SL ONLY
AKC-128 2P (HEWZI)
AKC-043 3P (SD, SL)
FU52, 53
AEK-510 T1.6A/250V (SX-P830/SD, SL)
AEK-508 T1A/250V (SX-P730/SD, SL)
SUB POWER assembly
(AWZ4363 : SX-P830, 730/HEWZI)
(AWZ4365 : SX-P830, 730/SD, SL)
IC401 M5222L
COM
IC481 TC9154AP
9

Note :
For power supply section of SD and SL types, refer to page 8.

2.5 FRONT AMP ASSEMBLY

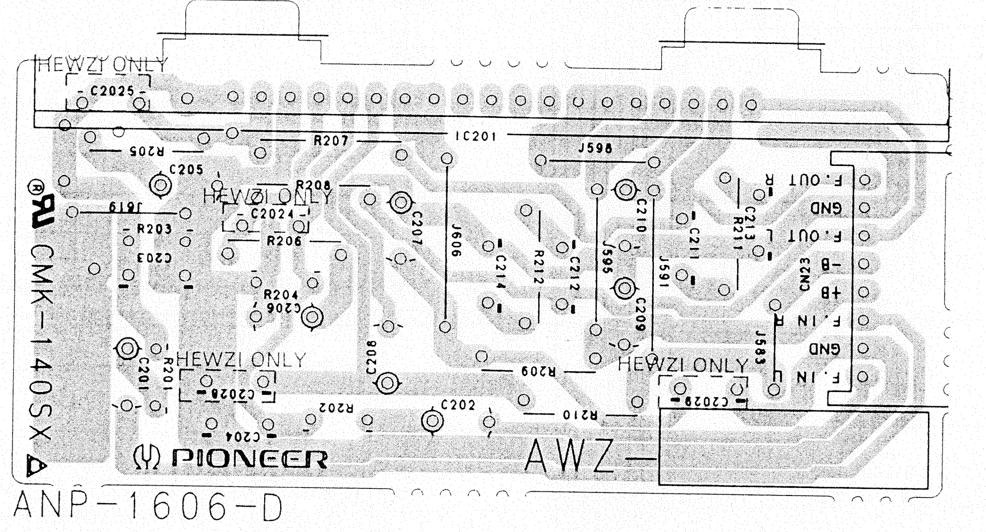
FRONT AMP assembly (AWZ4335 : SX−P830/HEWZI)
(AWZ4336 : SX−P830/SD, SL)
(AWZ4342 : SX−P730/HEWZI)
(AWZ4343 : SX−P730/SD, SL)

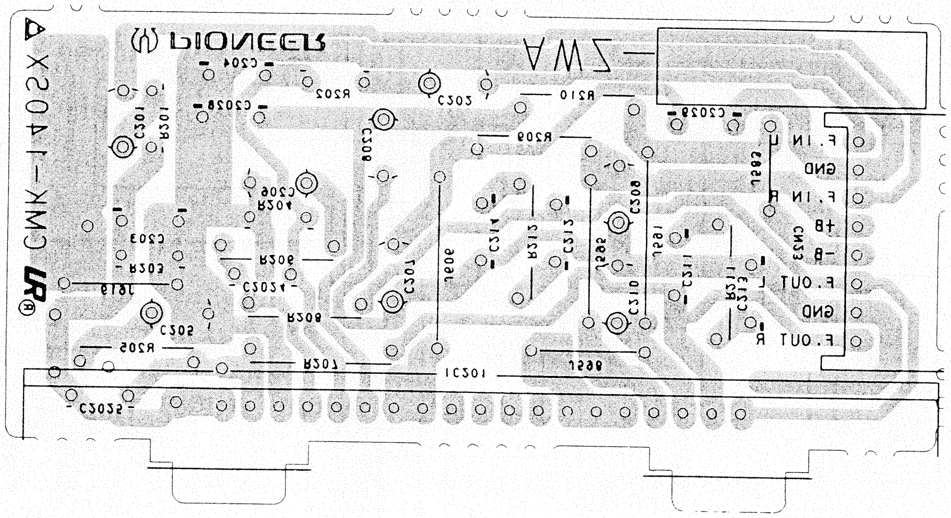
IC201
STK4160-2G (SX-P830/HEWZI)
STK4170-2G (SX-P830/SD, SL)
STK4140-2G (SX-P730)


IC201
HEWZI ONLY
1 R IN
RNF
GND
L NF
L IN
-Vcc2
+Vcc2
NC
NC
NC
NC
NC
NC
NC
-Vcc1
+Vcc1
-Vcc1
R OUT
L OUT 19
100p
C2024
100p
C2025
R203 56.0k
C203 470p
R204 56.0k
C204 470p
R207 56.0k 1/4W
56.0k 1/4W R208
0.047 C2028
C2029
0.047
R210 100 1/4W
100 1/4W R209
HEWZI ONLY
R201 1.0k
C201 0.15/50
R202 1.0k
C202 0.15/50
R205 560 1/4W
C205 100/50
R206 560 1/4W
C206 100/50
C208 100/50
C207 100/50
C210 10/50
C209 10/50
C211 0.047
C212 0.047
R211 4.7 1/4W
R212 4.7 1/4W
C213 0.047
C214 0.047
F.IN L
G
R.IN
+B
-B
F.OUT L
G
F.OUT R
① ② ③ ④ ⑤ ⑥ ⑦ ⑧
CN23
KM250NA8L

To MAIN assembly CN24 (➡ P28)

FRONT AMP assembly (AWZ4335 : SX−P830/HEWZI)
(AWZ4336 : SX−P830/SD, SL)
(AWZ4342 : SX−P730/HEWZI)
(AWZ4343 : SX−P730/SD, SL)


HEWZI ONLY
C2025
R205
C205
R203
C203
J619
R201
C201
HEWZI ONLY
C2024
R208
R206
R207
R204
C206
HEWZI ONLY
C2028
R202
C204
C202
C207
J606
C208
C214
R212
C212
J595
IC201
J598
C210
C209
J591
C211
R211
C213
R209
R210
HEWZI ONLY
C2029
J583
CN23
F.OUT R
GND
F.OUT L
-B
+B
F.IN L
GND
F.IN R
CMK-140SX
PIONEER
AWZ
ANP-1606-D


PIONEER
AWZ
CMK-140SX

3. ADJUSTMENTS

3.1 ADJUSTMENT OF THE FM TUNER SECTION

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 3－1.

Step No.	Adjustment title	FM SG (1kHz ± 75kHz dev.)		Reception frequency display	Adjustment location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center adjustment	98	80	98.0MHz	L907	Adjust so that the DC voltage between the TP901 (Vref) and TP902 (T－meter) becomes 0V ± 50mV.
2	VCO adjustment	Non modulation	80	98.0MHz	VR903	Adjust so that the output of the TP905 (VCO) becomes 76kHz ± 0.5kHz.
3	TUNED IND. Lighting level	98 *1 (Stereo modulation)	18 (±3dB)	98.0MHz	VR902	Adjust so that the indicators of TUNED, STEREO IND. start to light up.

Note :

Perform steps 1 and 3 when the 2 serial F. E. module assembly is replaced. Confirm VCO (step 2) and adjust if improper.

*1 Stereo modulation : Main 1kHz L+R ±68.25kHz dev.
Pilot 19kHz ±6.75kHz dev.

3.2 ADJUSTMENT OF AM (MW) TUNER SECTION

- Set the mode selector to AM (MW) BAND.
- Connect the wiring as shown in Fig. 3－2.

Step No.	Adjustment title	AM SG (400Hz 30% Mod.)		Reception frequency display	Adjustment location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	Tracking adjustment *1	603	Feeble input	603kHz	AM RF Tuning block antenna coil	Adjust so that the DC voltage between the TP904 (S-meter) and GND becomes at maximum level.
		1395		1395kHz	TC901	
2	IFT adjustment *1	603		603kHz	F904	
3	TUNED IND. Lighting level	999 *2	55 (±5dB)	999kHz *2	VR901	Adjust so that the indicators of TUNED IND. start to light up.

Note 1 :

*Adjustment marked with " *1 " is only for HEWZI.*

Note 2 :

Frequencies indicated in the above table are for the area using 9kHz step (HEWZI, SD/SL : 9k step). For the area using 10kHz step (SD, SL : 10kHz), frequencies should be as follows :

**2 : 1000kHz*

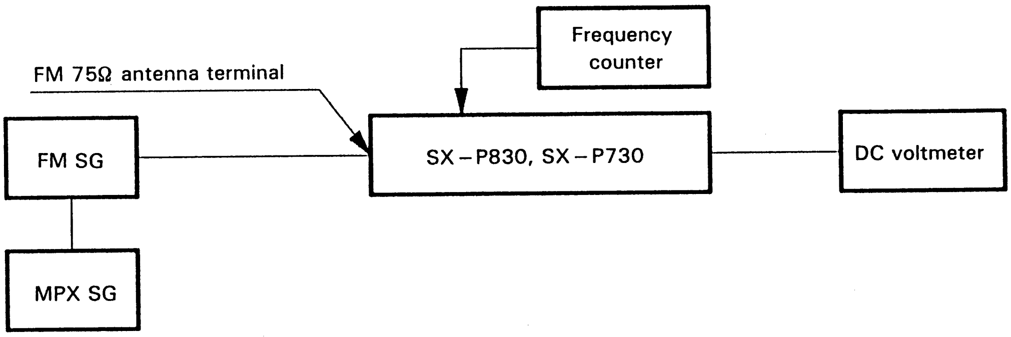

Frequency counter
FM 75Ω antenna terminal
FM SG
SX-P830, SX-P730
DC voltmeter
MPX SG

Fig. 3-1 FM Adjustment Connection Diagram

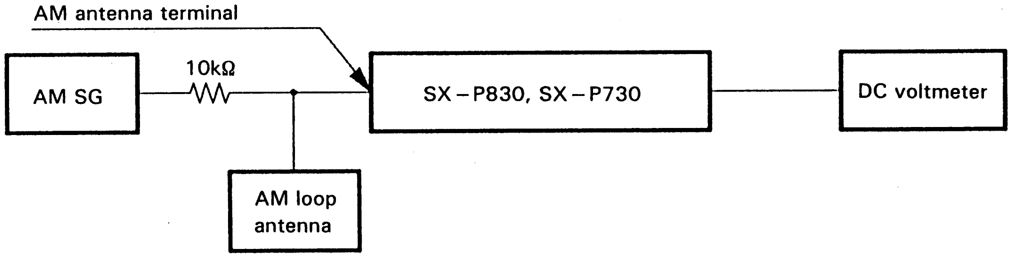

AM antenna terminal
AM SG
10kΩ
SX-P830, SX-P730
DC voltmeter
AM loop antenna

Fig. 3-2 AM (MW) Adjustment Connection Diagram

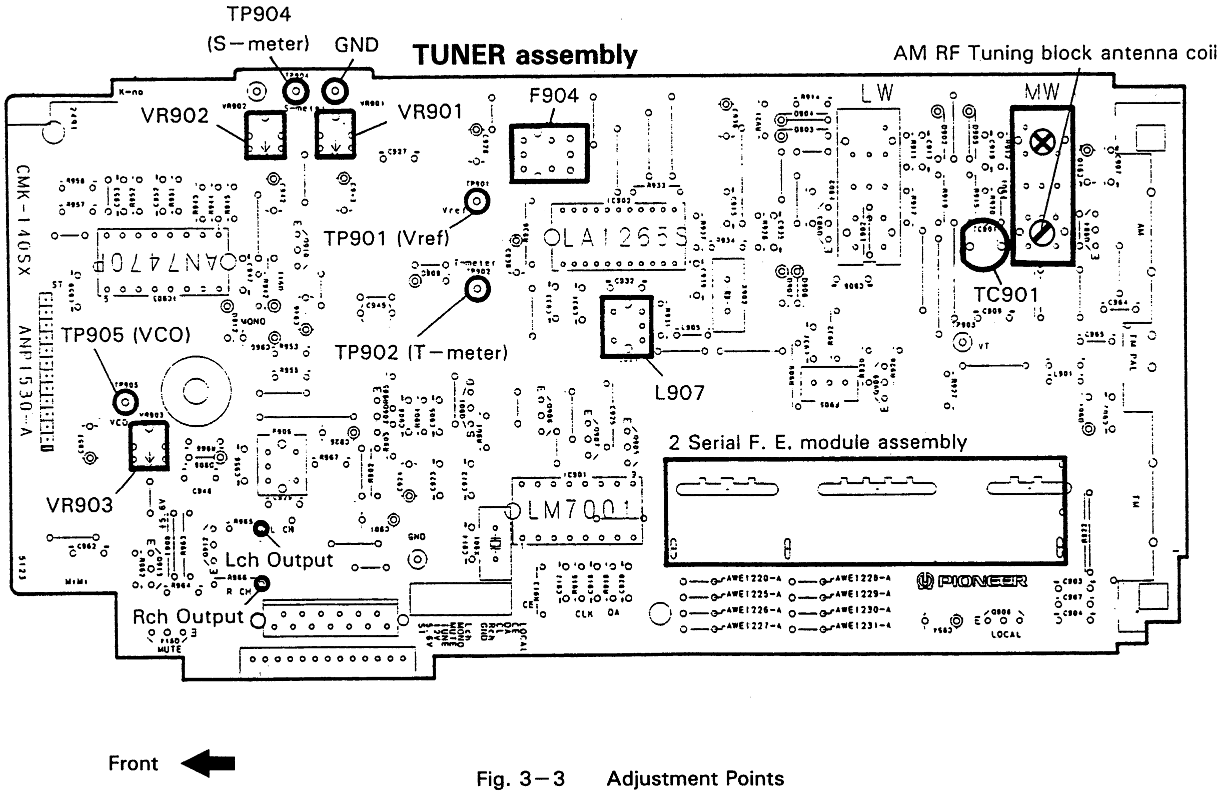

TP904
(S-meter)
GND
TUNER assembly
AM RF Tuning block antenna coii
VR902
VR901
F904
LW
MW
CMK-140SX
ANP1530-A
AN7470P
LA1265S
TP901 (Vref)
TP902 (T-meter)
TP905 (VCO)
TC901
L907
VR903
2 Serial F. E. module assembly
LM7001
Lch Output
Rch Output
PIONEER
Front

Fig. 3-3 Adjustment Points